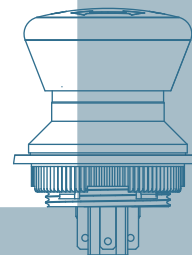


# 1



## PUSHBUTTONS

|  |               |
|--|---------------|
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# PUSHBUTTONS

## GENERAL INFORMATION

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### Concepts

1. Momentary pushbuttons are switching elements which are used for making or breaking contact while they are being pressed.
  2. Latching pushbutton are used for making or breaking contact until they are returned to their initial position by being pressed again.
  3. Illuminated pushbuttons have the same functions as described for (1) and (2) and feature an additional lamp socket for accomodating a filament, neon lamp or LED.
  4. Legending can ce effected using kabel holders, legend inserts, by engraving or hot stamping. Grooved transparent lenses are not suitable for legending.
- 

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### CE-Conformity

The products of the Chapter Pushbuttons" can – relating to the CE-conformity according to the Low-Voltage Directive 73/23/EWG – be divided into the following groups:

#### **Emergency-stop components with an operating voltage < 50 V**

F. ex. LUMOTAST 25 emergency-stop. For this pushbutton the Machine Directive 89/392/EWG applies.

#### **All products with an operating voltage > 50 V**

For these elements the Low-Voltage Directive 72/23/EWG applies.

#### **All products with an operating voltage < 50 V**

For these products no directive applies.

#### **Single parts, accessories and illumination**

For these products no directive applies.

#### **EMC-Law**

The components of this catalogue are within the meaning of the law concerning the Eletromagnetic Conformy (= EMC-Law) "basic components as, f. ex., switches, signal lamps or like" and, therefore, do not fall within the scope of the EMC-Law.

#### **Marking**

The marking will be corresponding to the Low-Voltage Directive 73/23/EWG resp. the Directive "CE-Marking 93/68/EWG" either on the packing or on the product itself.

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## LUMOTAST FK

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### LUMOTAST FK - Illuminated pushbutton range

- Illuminable pushbuttons and signal lamps with lamp socket T 1/T 1¼.
  - Mounting hole diameter 16.2 mm
  - 35 V / 100 mA max.
  - Degree of protection: IP65 acc. to DIN EN 60529
  - Low profile
  - Keyed socket connector and flat ribbon cable in insulation displacement (IDC) technology or PCB plug-in socket
  - Time-saving click fixing method: Insert pushbutton into front panel and press pushbutton once to fix it.
  - All products are RoHS compliant.
-

# PUSHBUTTONS

LUMOTAST FK

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FK

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## Content

### LUMOTAST FK Illuminated pushbuttons

- LUMOTAST FK Illuminated pushbutton, round collar
- LUMOTAST FK Illuminated pushbutton, square collar
- LUMOTAST FK Illuminated pushbutton, rectangular collar

1 - 7  
1 - 8  
1 - 9  
1 - 10

### LUMOTAST FK Signal lamps

- LUMOTAST FK Signal lamp, round collar
- LUMOTAST FK Signal lamp, square collar
- LUMOTAST FK Signal lamp, rectangular collar

1 - 11  
1 - 12  
1 - 13  
1 - 13

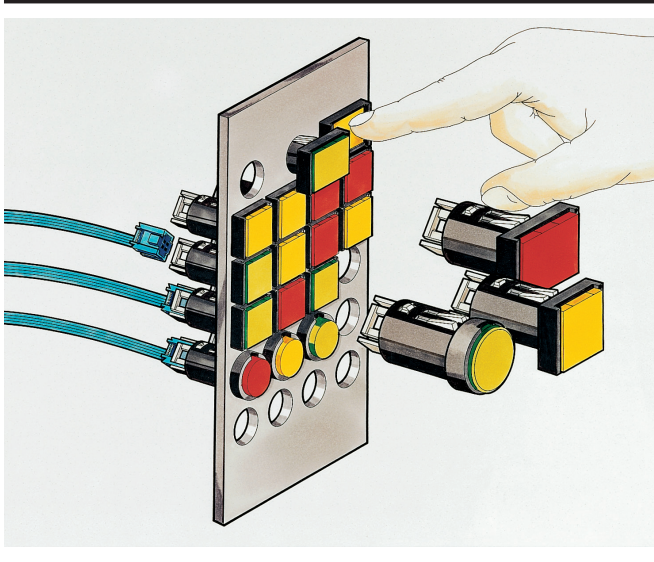
# Series LUMOTAST FK

16.2 mm mounting hole diameter

1

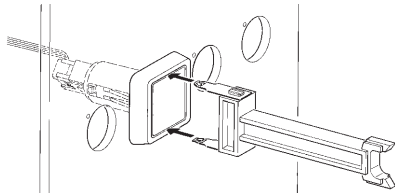
LUMO  
FK

## Mounting

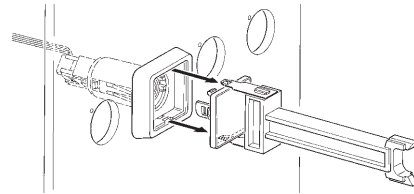


- ① pushbutton as supplied
- ② Insert pushbutton into panel cut-out
- ③ Press once to fit
- ④ Attach connector with flat-ribbon cable

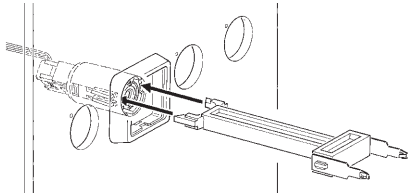
## Disassembly from front side



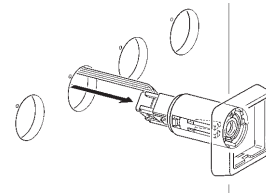
1. Grip body/lens



2. Pull out body/lens



3. Release click lever



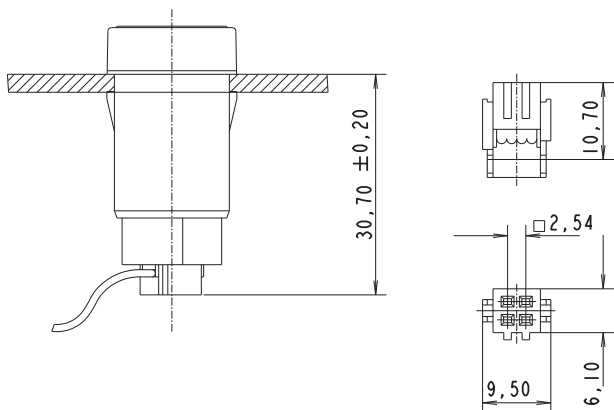
4. Pull out pushbutton/signal lamp with cable

# PUSHBUTTONS

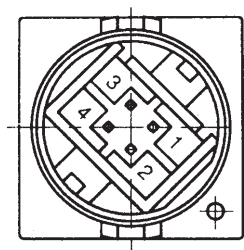
LUMOTAST FK - ILLUMINATED PUSHBUTTONS

## Dimensional drawing

With quick connector and flat-ribbon cable

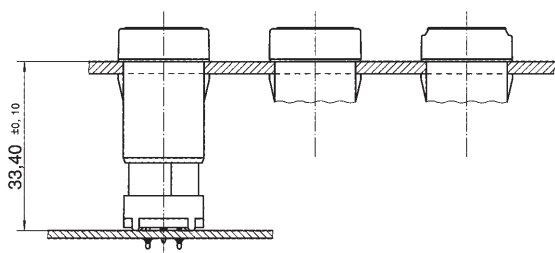


Connection diagram (PCB top view)

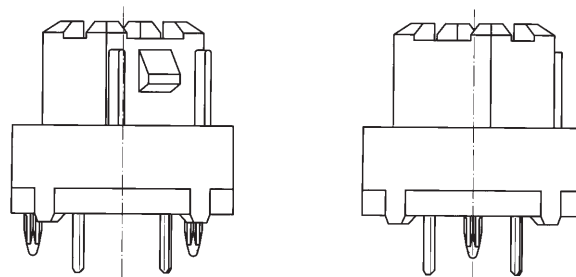


1 + 4 = pushbutton connection, 2 + 3 = lamp connection  
If LED is used: connection 3 = cathode

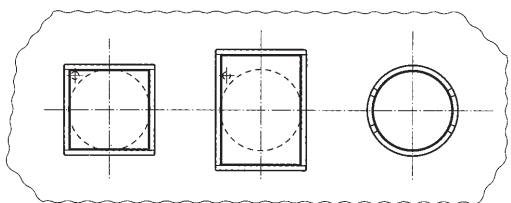
With plug-in socket



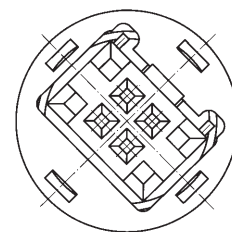
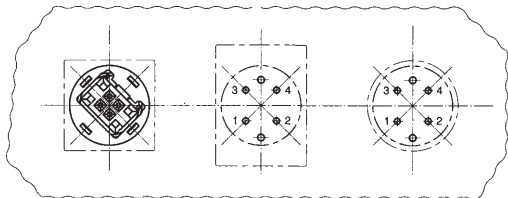
Plug-in socket for PCB



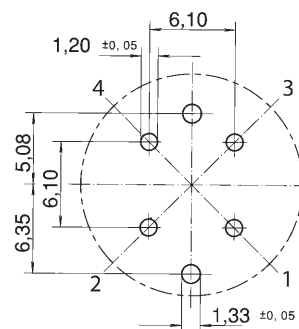
Front panel top view



PCB top view



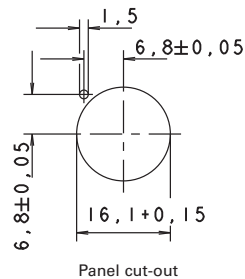
PCB hole diagram  
Sight on component side



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FK

# LUMOTAST FK Illuminated pushbuttons



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FK

## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Actuator       | flat lens       |
| Color of lens  | see order block |
| Form of collar | see order block |

### → Dimensions

|                                    |                 |
|------------------------------------|-----------------|
| Length of collar                   | see order block |
| Width of collar                    | see order block |
| Diameter of collar                 | see order block |
| Overall height                     | 6.6 mm          |
| Mounting depth with connector      | 30.7 mm         |
| Mounting depth with plug-in socket | 33.4 mm         |
| Mounting hole                      | 16.2 mm         |

### → Mechanical design

|                     |                                       |
|---------------------|---------------------------------------|
| Mounting            | click quick connection                |
| Terminals           | pin connector 4-pole / plug-in socket |
| Contact system      | snap-action contact                   |
| Contact function    | momentary                             |
| Contact arrangement | 1 NO                                  |
| Contact materials   | Au                                    |
| Illumination        | yes                                   |
| Lamp socket         | Bi-Pin T1 / T1¼                       |

### → Mechanical characteristics

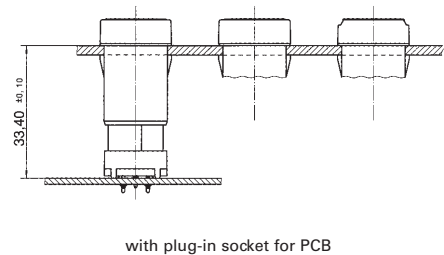
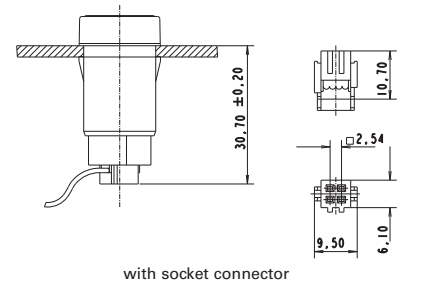
|                      |        |
|----------------------|--------|
| Operating force max. | 6 N    |
| Operating travel     | 3 mm   |
| Switching travel     | 1.9 mm |
| Robustness max.      | 100 N  |

### → Electrical characteristics

|                                      |         |
|--------------------------------------|---------|
| Rated voltage AC/DC max.             | 35 V    |
| Rated voltage AC/DC min.             | 0.02 V  |
| Rated current AC/DC max.             | 100 mA  |
| Rated current AC/DC min.             | 0.01 mA |
| Contact resistance acc. to life max. | 300 mΩ  |
| Contact resistance when new max.     | 100 mΩ  |
| Bouncing time max.                   | 5 ms    |

### → Other specifications

|  |                     |
|--|---------------------|
| Operating life (operations)                    | 1,000,000           |
| Degree of protection from front side           | IP65 (DIN EN 60529) |
| Operation temperature min.                     | -25 °C              |
| Ambient temp. operating max. without lamp /LED | +70 °C              |
| Ambient temp. operating max. with lamp /LED    | +55 °C              |
| Storage temperature min.                       | -40 °C              |



# PUSHBUTTONS

LUMOTAST FK - ILLUMINATED PUSHBUTTONS








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FK

## - Technical data (continued) – LUMOTAST FK - Illuminated pushbutton

|                          |  |
|--------------------------|--|
| Storage temperature max. | +80 °C                                   |
| Environmental resistance | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                   | 6 g                                      |
| ROHS compliant           | yes                                      |
| REACH compliant          | yes                                      |

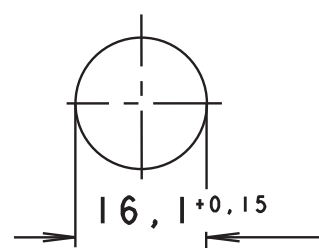
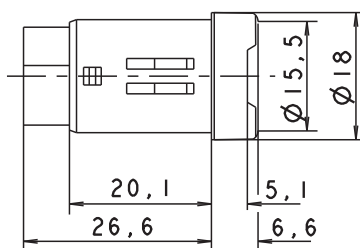
## Accessories LUMOTAST FK - Illuminated pushbutton

| → Description   | Photo   | Order no.         | Additional accessories see page |
|---|---|-------------------|---------------------------------|
| Socket Bi-Pin T 1, LED  |    | -                 | 5 - 6                           |
| Socket Bi-Pin T 1, LED superbright  |    | -                 | 5 - 6                           |
| Plug-in socket for PCB  |    | 5.00.645.036/0000 | 5 - 28                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |    | 5.03.771.306/0000 | 5 - 29                          |
| Disassembly tool for LUMOTAST FK  |  | 5.05.800.041/0000 | 5 - 27                          |
| Flat ribbon cable, 4-wire, 1 m long   |  | 5.37.700.124/0000 | 5 - 28                          |
| Socket connector, 4-pin   |  | 5.92.025.368/0000 | 5 - 28                          |



## LUMOTAST FK Illuminated pushbutton, round collar

Technical data see page 1 - 7



Panel cut-out

| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.114.936/0000 | Please include the desired lens in your order. |

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).



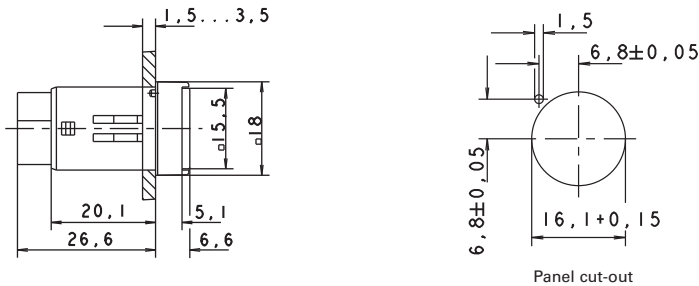
– Table (continued) –  
LUMOTAST FK - Illuminated pushbutton, round collar

**Lenses:**

- Lens, round, transparent colorless: 5.49.075.016/1002
- Lens, round, transparent red: 5.49.075.016/1306
- Lens, round, transparent yellow: 5.49.075.016/1403
- Lens, round, transparent green: 5.49.075.016/1505
- Lens, round, transparent blue: 5.49.075.016/1607

## LUMOTAST FK Illuminated pushbutton, square collar

Technical data see page 1 - 7



| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.114.906/0000 | Please include the desired lens in your order. |

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

**Lenses:**

- Lens, square, transparent colorless: 5.49.075.015/1002
- Lens, square, transparent red: 5.49.075.015/1306
- Lens, square, transparent yellow: 5.49.075.015/1403
- Lens, square, transparent green: 5.49.075.015/1505
- Lens, square, transparent blue: 5.49.075.015/1607

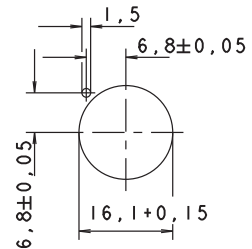
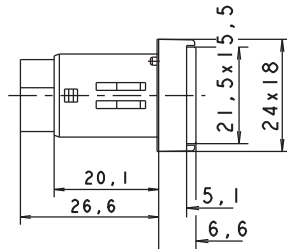
# PUSHBUTTONS

LUMOTAST FK - ILLUMINATED PUSHBUTTONS



## LUMOTAST FK Illuminated pushbutton, rectangular collar

Technical data see page 1 - 7



Panel cut-out

| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.114.966/0000 | Please include the desired lens in your order. |

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

Lens, rectangular, transparent colorless: 5.49.075.017/1002

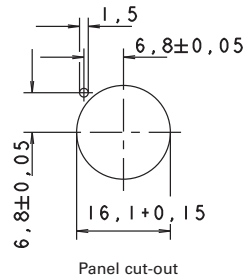
Lens, rectangular, transparent red: 5.49.075.017/1306

Lens, rectangular, transparent yellow: 5.49.075.017/1403

Lens, rectangular, transparent green: 5.49.075.017/1505

Lens, rectangular, transparent blue: 5.49.075.017/1607

## LUMOTAST FK Signal lamps



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### Technical Data

#### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | flat lens       |
| Color of lens  | see order block |
| Form of collar | see order block |

#### → Dimensions

|                                    |                 |
|------------------------------------|-----------------|
| Length of collar                   | see order block |
| Width of collar                    | see order block |
| Overall height                     | see order block |
| Mounting depth with connector      | 30.7 mm         |
| Mounting depth with plug-in socket | 33.4 mm         |
| Mounting hole                      | 16.2 mm         |

#### → Mechanical design

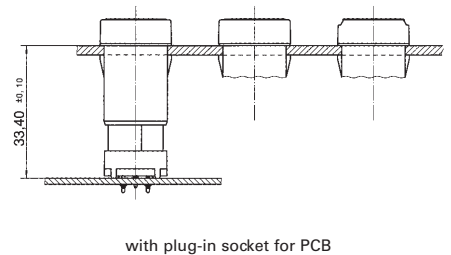
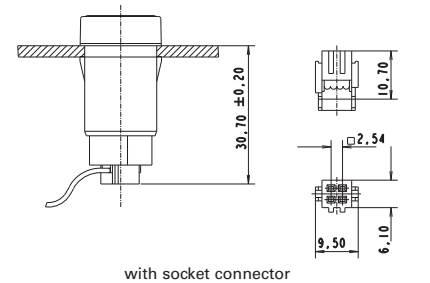
|             |                                       |
|-------------|---------------------------------------|
| Mounting    | click quick connection                |
| Terminals   | pin connector 4-pole / plug-in socket |
| Lamp socket | Bi-Pin T1 / T1¼                       |
| Lamp        | filament lamp / LED                   |

#### → Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 24 V  |
| Power limit max.   | 0.7 W |

#### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Weight                               | 5 g                                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +55 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |



### Accessories LUMOTAST FK - Signal lamp

#### → Description

| Description                        | Photo | Order no.         | Additional accessories see page |
|------------------------------------|-------|-------------------|---------------------------------|
| Socket Bi-Pin T 1, LED             |       | -                 | 5 - 6                           |
| Socket Bi-Pin T 1, LED superbright |       | -                 | 5 - 6                           |
| Plug-in socket for PCB             |       | 5.00.645.036/0000 | 5 - 28                          |





# PUSHBUTTONS

LUMOTAST FK - SIGNAL LAMPS

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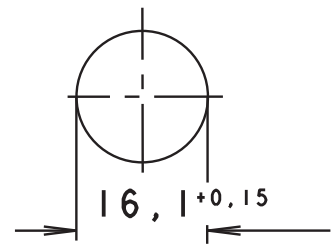
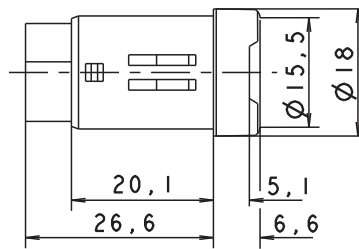
**- Table (continued) -  
Accessories LUMOTAST FK - Signal lamp**

| Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |   | 5.03.771.306/0000 | 5 - 29                          |
| Disassembly tool for LUMOTAST FK  |  | 5.05.800.041/0000 | 5 - 27                          |
| Flat ribbon cable, 4-wire, 1 m long   |   | 5.37.700.124/0000 | 5 - 28                          |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |



## LUMOTAST FK Signal lamp, round collar

Technical data see page 1 - 11



Panel cut-out

| Power limit max. | Voltage limit max. | Lamp socket     | Order no.         | Note   |
|------------------|--------------------|-----------------|-------------------|--|
| 0.7 W            | 24 V               | Bi-Pin T1 / T1¼ | 1.65.121.936/0000 | Please include the desired lens in your order. |

**Do not press in lens in disassembled condition.**

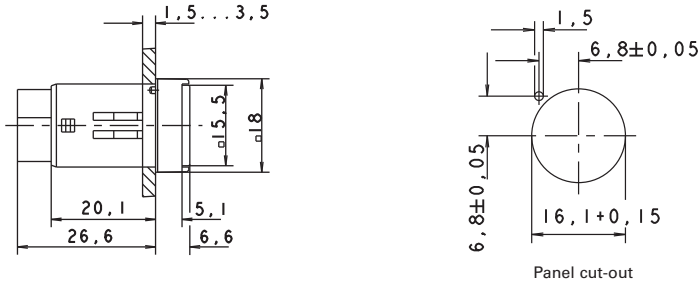
Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

**Lenses:**

- Lens, round, transparent colorless: 5.49.075.016/1002
- Lens, round, transparent red: 5.49.075.016/1306
- Lens, round, transparent yellow: 5.49.075.016/1403
- Lens, round, transparent green: 5.49.075.016/1505
- Lens, round, transparent blue: 5.49.075.016/1607

## LUMOTAST FK Signal lamp, square collar

Technical data see page 1 - 11



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FK

| → Power limit max. | Voltage limit max. | Lamp socket     | Order no.         | Note   |
|--------------------|--------------------|-----------------|-------------------|--|
| 0.7 W              | 24 V               | Bi-Pin T1 / T1¼ | 1.65.121.906/0000 | Please include the desired lens in your order. |

**Do not press in lens in disassembled condition.**

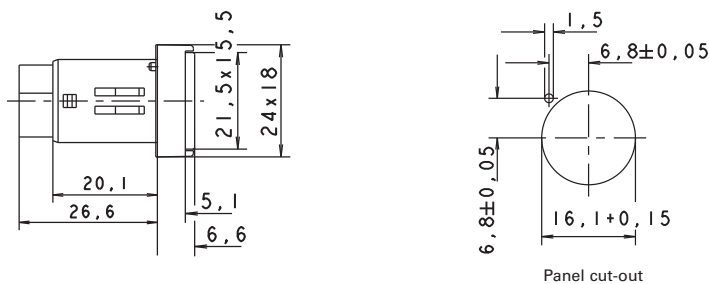
Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

**Lenses:**

- Lens, square, transparent colorless: 5.49.075.015/1002
- Lens, square, transparent red: 5.49.075.015/1306
- Lens, square, transparent yellow: 5.49.075.015/1403
- Lens, square, transparent green: 5.49.075.015/1505
- Lens, square, transparent blue: 5.49.075.015/1607

## LUMOTAST FK Signal lamp, rectangular collar

Technical data see page 1 - 11



| → Power limit max. | Voltage limit max. | Lamp socket     | Order no.         | Note   |
|--------------------|--------------------|-----------------|-------------------|--|
| 0.7 W              | 24 V               | Bi-Pin T1 / T1¼ | 1.65.121.966/0000 | Please include the desired lens in your order. |

**Do not press in lens in disassembled condition.**

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

**Lenses:**

- Lens, rectangular, transparent colorless: 5.49.075.017/1002

# PUSHBUTTONS

LUMOTAST FK - SIGNAL LAMPS

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– Table (continued) –

## LUMOTAST FK - Signal lamp, rectangular collar

---

Lens, rectangular, transparent red: 5.49.075.017/1306

Lens, rectangular, transparent yellow: 5.49.075.017/1403

Lens, rectangular, transparent green: 5.49.075.017/1505

Lens, rectangular, transparent blue: 5.49.075.017/1607

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FK



## LUMOTAST 25

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### LUMOTAST 25 - Pushbutton range

- Illuminable pushbuttons and signal lamps.
  - Mounting hole diameter: 16.2 mm
  - 35 V / 100 mA max.
  - Degree of protection: IP65 acc. to DIN EN 60529
  - Low profile
  - Lamp socket Bi-Pin T 1 for LEDs and filament lamps
  - Keyed socket connector and flat ribbon cable or PCB plug-in socket
  - Ring nut or click fixing method.
  - All products are RoHS compliant.
-

# PUSHBUTTONS

LUMOTAST 25

## Content

### **LUMOTAST 25 Illuminated pushbuttons**

|   |        |
|---|--------|
| LUMOTAST 25 Illuminated pushbutton with flush lens, „Click“ quick-assembly feature      | 1 - 19 |
| LUMOTAST 25 Illuminated pushbutton with flush lens, ring nut fixing                     | 1 - 21 |
| LUMOTAST 25 Illuminated pushbutton with protruding lens, „Click“ quick-assembly feature | 1 - 21 |
| LUMOTAST 25 Illuminated pushbutton with protruding lens, ring nut fixing                | 1 - 22 |
| LUMOTAST 25 Illuminated pushbutton with protruding lens, ring nut fixing                | 1 - 23 |

### **LUMOTAST 25 Selector switches**

|  |        |
|--|--------|
| LUMOTAST 25 Selector switch, ring nut fixing | 1 - 24 |
|--|--------|

### **LUMOTAST 25 Keylock switches**

|                            |        |
|----------------------------|--------|
| LUMOTAST 25 Keylock switch | 1 - 25 |
|----------------------------|--------|

### **LUMOTAST 25 Emergency stop pushbuttons**

|  |        |
|--|--------|
| LUMOTAST 25 Emergency stop pushbutton, ring nut fixing | 1 - 26 |
|--|--------|

### **LUMOTAST 25 Signal lamps**

|   |        |
|---|--------|
| LUMOTAST 25 Signal lamp, 24 V, „Click“ quick-assembly feature | 1 - 29 |
| LUMOTAST 25 Signal lamp, 24 V, ring nut fixing                | 1 - 31 |
| LUMOTAST 25 Signal lamp, 24 V, „Click“ quick-assembly feature | 1 - 32 |
| LUMOTAST 25 Signal lamp, 24 V, ring nut fixing                | 1 - 33 |
| LUMOTAST 25 Signal lamp, 24 V, ring nut fixing                | 1 - 34 |

1

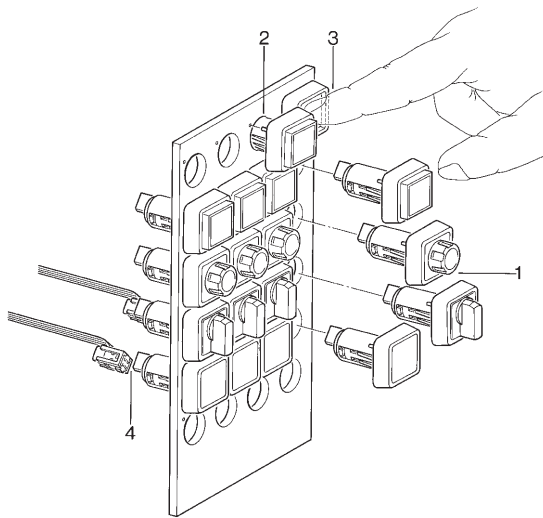
LUMO  
25



# Series LUMOTAST 25

16.2 mm mounting hole diameter

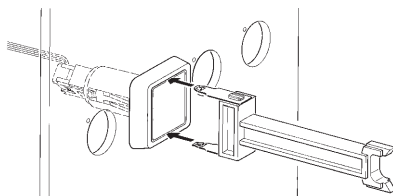
## Mounting of Click-Version



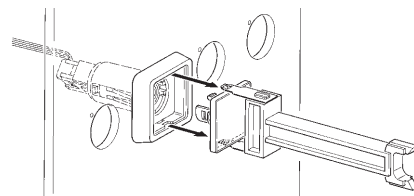
- ① As delivered
- ② Insert pushbutton in hole
- ③ Actuate once
- ④ Insert connector with flat-ribbon cable

## Disassembly Click-Version from Front Side

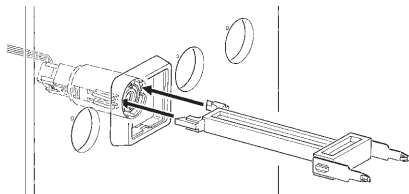
Click-Version from front (only for pushbuttons and signal lamps with special tool for dismounting)



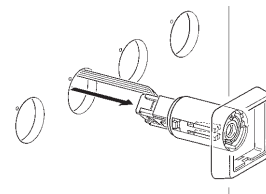
1. Grip body/lens



2. Pull out body/lens



3. Release click lever



4. Pull out pushbutton/signal lamp with cable

# PUSHBUTTONS

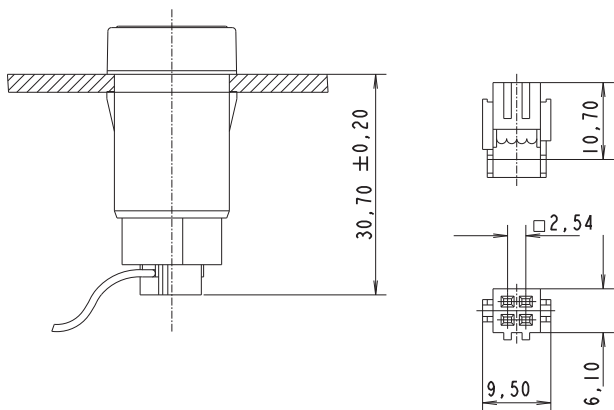
## LUMOTAST 25 - ILLUMINATED PUSHBUTTONS

### Dimensional drawing

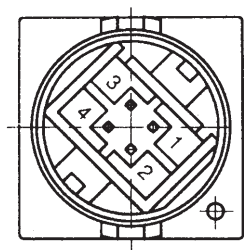
1

LUMO  
25

With quick connector and flat-ribbon cable

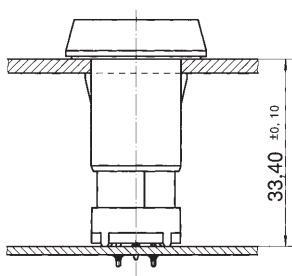


Connection diagram (PCB top view)

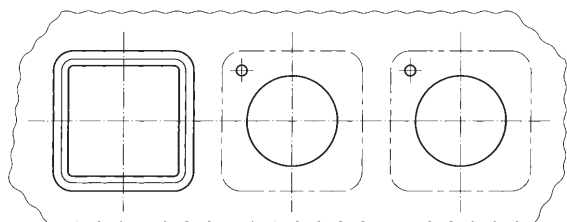


1 + 4 = pushbutton connection, 2 + 3 = lamp connection  
If LED is used: connection 3 = cathode

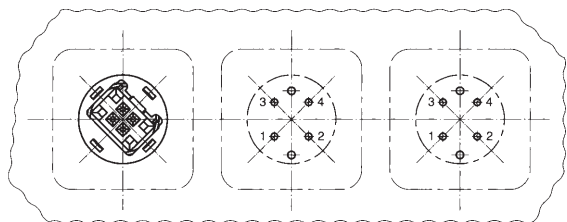
With plug-in socket



Front panel top view

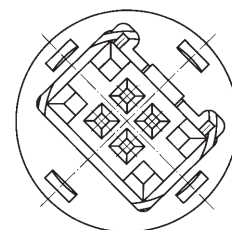
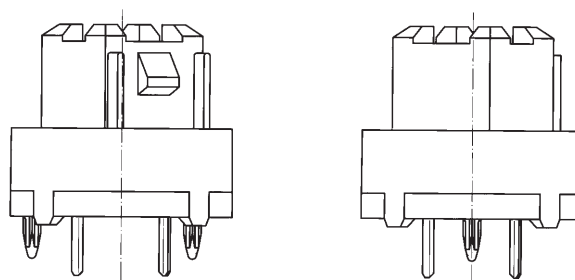


PCB top view

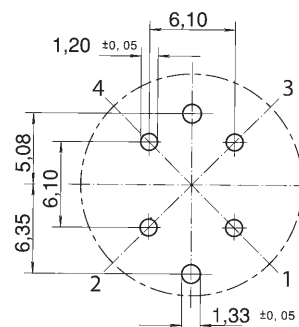


1+4 contact connection  
2+3 lamp connection

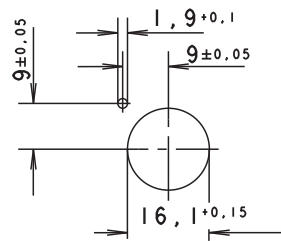
Plug-in socket for PCB



PCB hole diagram  
Sight on component side



# LUMOTAST 25 Illuminated pushbuttons



Panel cut-out

## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | see order block |
| Color of lens  | see order block |
| Form of collar | square          |

### → Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 7.1 mm  |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

### → Mechanical design

|                     |                                       |
|---------------------|---------------------------------------|
| Mounting            | see order block                       |
| Terminals           | pin connector 4-pole / plug-in socket |
| Contact system      | snap-action contact                   |
| Contact function    | momentary                             |
| Contact arrangement | 1 NO                                  |
| Contact materials   | Au                                    |
| Illumination        | yes                                   |
| Lamp socket         | Bi-Pin T1 / T1¼                       |

### → Mechanical characteristics

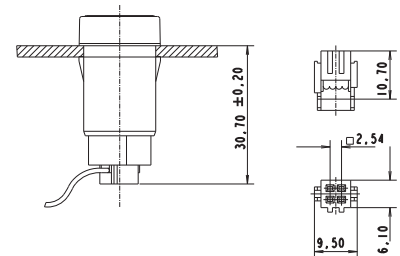
|                      |       |
|----------------------|-------|
| Operating force max. | 6 N   |
| Operating travel     | 3 mm  |
| Switching travel     | 2 mm  |
| Robustness max.      | 100 N |

### → Electrical characteristics

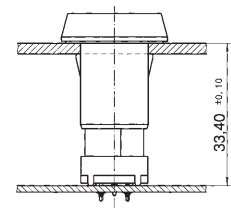
|                                      |         |
|--------------------------------------|---------|
| Rated voltage AC/DC max.             | 35 V    |
| Rated voltage AC/DC min.             | 0.02 V  |
| Rated current AC/DC max.             | 100 mA  |
| Rated current AC/DC min.             | 0.01 mA |
| Contact resistance acc. to life max. | 100 mΩ  |
| Bouncing time max.                   | 5 ms    |

### → Other specifications

|  |                     |
|--|---------------------|
| Operating life (operations)                    | 1,000,000           |
| Degree of protection from front side           | IP65 (DIN EN 60529) |
| Ambient temp. operating max. without lamp /LED | -25 °C              |
| Ambient temp. operating max. without lamp /LED | +70 °C              |
| Ambient temp. operating min. with lamp /LED    | -25 °C              |
| Ambient temp. operating max. with lamp /LED    | +55 °C              |



with socket connector



with PCB plug-in socket

# PUSHBUTTONS













LUMOTAST 25 - ILLUMINATED PUSHBUTTONS

1

## – Technical data (continued) – LUMOTAST 25 - Illuminated pushbutton

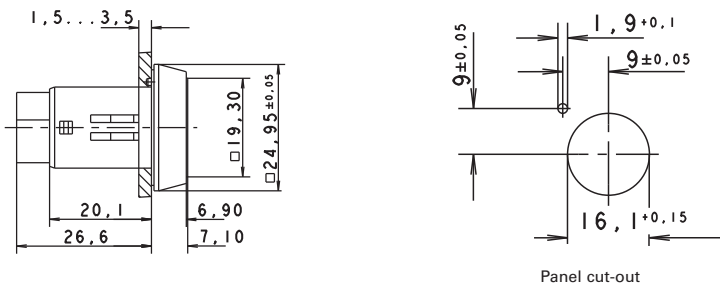
|                          |  |
|--------------------------|--|
| Storage temperature min. | -40 °C                                   |
| Storage temperature max. | +80 °C                                   |
| Environmental resistance | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                   | 7 g                                      |
| ROHS compliant           | yes                                      |
| REACH compliant          | yes                                      |

## Accessories LUMOTAST 25 - Illuminated pushbutton

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Socket Bi-Pin T 1, LED  |     | -                 | 5 - 6                           |
| Socket Bi-Pin T 1, LED superbright  |     | -                 | 5 - 6                           |
| Plug-in socket for PCB  |     | 5.00.645.036/0000 | 5 - 28                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |    | 5.03.771.306/0000 | 5 - 29                          |
| Disassembly tool for LUMOTAST 25, RAFIX 16  |  | 5.05.800.042/0000 | 5 - 27                          |
| Blanking cap complete with sealing disc and ring nut, square                              |   | 5.05.800.049/0100 | 2 - 83, 5 - 23                  |
| Label holder, flush, for square collar  |   | 5.07.620.004/0000 | 2 - 80                          |
| Flat ribbon cable, 4-wire, 1 m long   |   | 5.37.700.124/0000 | 5 - 28                          |
| Fixing spanner M 15, M 16   |  | 5.58.002.019/0105 | 5 - 25                          |
| Legend insert, blank, use only for transparent lenses                                     |   | 5.70.635.000/2000 | -                               |
| Legend label 23 x 16 for label holder, without legend                                     |   | 5.73.111.000/0000 | -                               |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |

## LUMOTAST 25 Illuminated pushbutton with flush lens, „Click“ quick-assembly feature

Technical data see page 1 - 19



1

LUMO  
25

| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.150.506/0000 | Please include the desired lens in your order. |

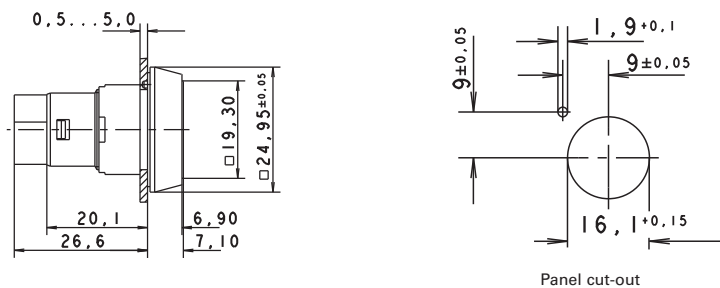
Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

- Lens, square, transparent colorless: 5.49.077.011/1002
- Lens, square, transparent red: 5.49.077.011/1306
- Lens, square, transparent yellow: 5.49.077.011/1403
- Lens, square, transparent green: 5.49.077.011/1505
- Lens, square, transparent blue: 5.49.077.011/1607

## LUMOTAST 25 Illuminated pushbutton with flush lens, ring nut fixing

Technical data see page 1 - 19



| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.150.556/0000 | Please include the desired lens in your order. |

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

- Lens, square, transparent colorless: 5.49.077.011/1002

# PUSHBUTTONS

LUMOTAST 25 - ILLUMINATED PUSHBUTTONS

1

LUMO  
25

– Table (continued) –

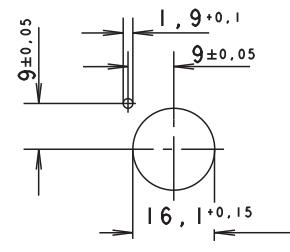
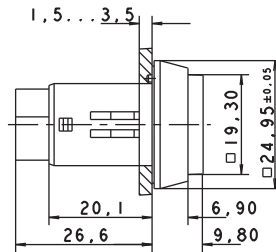
## LUMOTAST 25 - Illuminated pushbutton with flush lens, ring nut fixing

Lens, square, transparent red: 5.49.077.011/1306  
 Lens, square, transparent yellow: 5.49.077.011/1403  
 Lens, square, transparent green: 5.49.077.011/1505  
 Lens, square, transparent blue: 5.49.077.011/1607



## LUMOTAST 25 Illuminated pushbutton with protruding lens, „Click“ quick-assembly feature

Technical data see page 1 - 19



Panel cut-out

| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.150.606/0000 | Please include the desired lens in your order. |

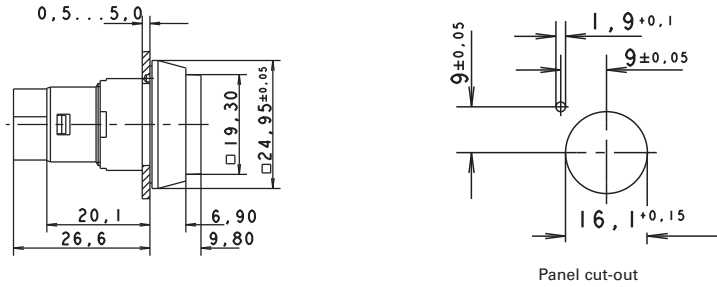
Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

Lens, square, transparent colorless: 5.49.077.012/1002  
 Lens, square, transparent red: 5.49.077.012/1306  
 Lens, square, transparent yellow: 5.49.077.012/1403  
 Lens, square, transparent green: 5.49.077.012/1505  
 Lens, square, transparent blue: 5.49.077.012/1607

## LUMOTAST 25 Illuminated pushbutton with protruding lens, ring nut fixing

Technical data see page 1 - 19



1

LUMO  
25

| → Contact function | Contact arrangement | Order no.         | Note   |
|--------------------|---------------------|-------------------|--|
| momentary          | 1 NO                | 1.15.150.656/0000 | Please include the desired lens in your order. |

Note when using LEDs: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

Lens, square, transparent colorless: 5.49.077.012/1002

Lens, square, transparent red: 5.49.077.012/1306

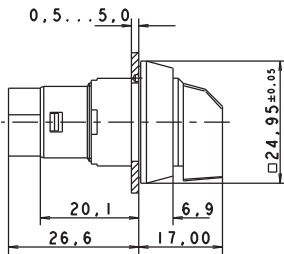
Lens, square, transparent yellow: 5.49.077.012/1403

Lens, square, transparent green: 5.49.077.012/1505

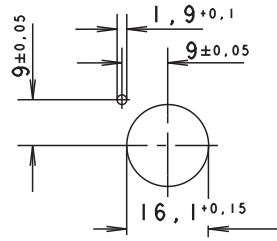
Lens, square, transparent blue: 5.49.077.012/1607

# PUSHBUTTONS

LUMOTAST 25 - SELECTOR SWITCHES



## LUMOTAST 25 Selector switches



Panel cut-out

### Technical Data

#### → General information

|                 |              |
|-----------------|--------------|
| Actuator        | handle       |
| Color of handle | black opaque |
| Form of collar  | square       |

#### → Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 17 mm   |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### → Mechanical design

|                     |                                       |
|---------------------|---------------------------------------|
| Mounting            | see order block                       |
| Terminals           | pin connector 4-pole / plug-in socket |
| Contact system      | snap-action contact                   |
| Contact function    | see order block                       |
| Contact arrangement | 1 NO                                  |
| Contact materials   | Au                                    |
| Illumination        | no                                    |

#### → Mechanical characteristics

|                      |                 |
|----------------------|-----------------|
| Operating force min. | 0.03 Nm         |
| Rotating angle       | see order block |
| Operating force max. | 1.5 N           |

#### → Electrical characteristics

|                                      |         |
|--------------------------------------|---------|
| Rated voltage AC/DC max.             | 35 V    |
| Rated voltage AC/DC min.             | 0.02 V  |
| Rated current AC/DC max.             | 100 mA  |
| Rated current AC/DC min.             | 0.01 mA |
| Contact resistance acc. to life max. | 100 mΩ  |
| Bouncing time max.                   | 5 ms    |

#### → Other specifications








|                                      |  |
|--------------------------------------|--|
| Operating life (operations)          | 500,000                                  |
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                               | 8 g                                      |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |

1

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25

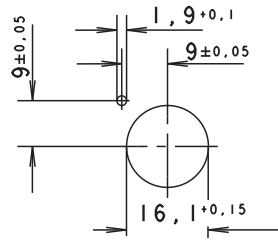
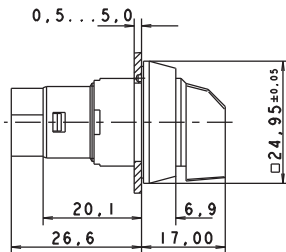


## Accessories LUMOTAST 25 - Selector switch

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Plug-in socket for PCB  |   | 5.00.645.036/0000 | 5 - 28                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |   | 5.03.771.306/0000 | 5 - 29                          |
| Blanking cap complete with sealing disc and ring nut, square                              |   | 5.05.800.049/0100 | 2 - 83, 5 - 23                  |
| Label holder, flush, for square collar  |   | 5.07.620.004/0000 | 2 - 80                          |
| Flat ribbon cable, 4-wire, 1 m long   |   | 5.37.700.124/0000 | 5 - 28                          |
| Fixing spanner M 15, M 16   |  | 5.58.002.019/0105 | 5 - 25                          |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |


## LUMOTAST 25 Selector switch, ring nut fixing

Technical data see page 1 - 24



Panel cut-out



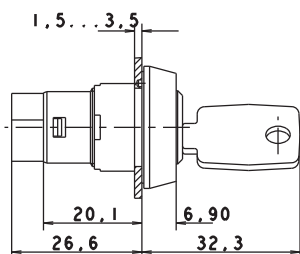
| → Contact arrangement | Contact function | Rotating angle | Actuator  | Order no. |                   |
|-----------------------|------------------|----------------|---|-----------|-------------------|
| 1 NO                  | latching         | right, 1 x 90° |  | handle    | 1.15.153.106/0100 |

# PUSHBUTTONS

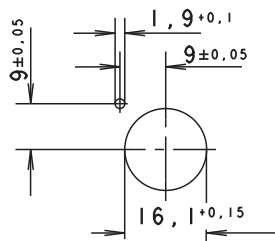
LUMOTAST 25 - KEYLOCK SWITCHES

1

LUMO  
25



## LUMOTAST 25 Keylock switches



Panel cut-out

→ The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

### Technical Data

#### → General information

|                |              |
|----------------|--------------|
| Color of lens  | black opaque |
| Form of collar | square       |

#### → Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 32.3 mm |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### → Mechanical design

|                             |                                      |
|-----------------------------|--------------------------------------|
| Mounting                    | ring nut                             |
| Terminals                   | pin connector 4-pol./ plug-in socket |
| Contact system              | snap-action contact                  |
| Contact function            | latching                             |
| Contact arrangement         | 1 NO                                 |
| Contact materials           | Au                                   |
| Illumination                | no                                   |
| Lamp socket                 | no                                   |
| Lock                        | cylinder lock                        |
| Wafers                      | 8 pins                               |
| Lock type                   | 5201                                 |
| Number of locking positions | 10,000                               |
| Main key                    | yes                                  |
| Symmetric key               | yes                                  |
| Key removal position        | see order block                      |

#### → Mechanical characteristics

|                      |       |
|----------------------|-------|
| Operating force max. | 1.5 N |
| Rotating angle       | 90°   |

#### → Electrical characteristics

|                                      |         |
|--------------------------------------|---------|
| Rated voltage AC/DC max.             | 35 V    |
| Rated voltage AC/DC min.             | 0.02 V  |
| Rated current AC/DC max.             | 100 mA  |
| Rated current AC/DC min.             | 0.01 mA |
| Contact resistance acc. to life max. | 100 mΩ  |
| Bouncing time max.                   | 5 ms    |










#### → Other specifications

|                                      |                     |
|--------------------------------------|---------------------|
| Operating life (operations)          | 50,000              |
| Degree of protection from front side | IP65 (DIN EN 60529) |
| Operation temperature min.           | -25 °C              |

**– Technical data (continued) –  
LUMOTAST 25 - Keylock switch**

|                              |  |
|------------------------------|--|
| Ambient temp. operating max. | +70 °C                                   |
| Storage temperature min.     | -40 °C                                   |
| Storage temperature max.     | +80 °C                                   |
| Environmental resistance     | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                       | 20 g                                     |
| ROHS compliant               | yes                                      |
| REACH compliant              | yes                                      |

**Accessories LUMOTAST 25 - Keylock switch**

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Plug-in socket for PCB  |     | 5.00.645.036/0000 | 5 - 28                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |     | 5.03.771.306/0000 | 5 - 29                          |
| Blanking cap complete with sealing disc and ring nut, square                              |     | 5.05.800.049/0100 | 2 - 83, 5 - 23                  |
| Label holder, flush, for square collar  |    | 5.07.620.004/0000 | 2 - 80                          |
| Flat ribbon cable, 4-wire, 1 m long   |   | 5.37.700.124/0000 | 5 - 28                          |
| Fixing spanner M 15, M 16   |  | 5.58.002.019/0105 | 5 - 25                          |
| Spare key set (2 keys)  |   | 5.58.015.201/0000 | -                               |
| Legend label 23 x 16 for label holder, without legend                                     |   | 5.73.111.000/0000 | -                               |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |

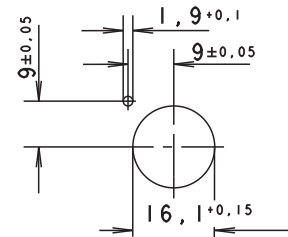
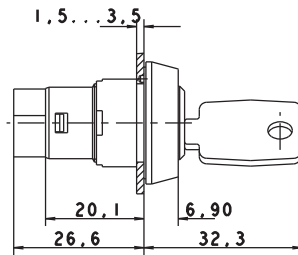
# PUSHBUTTONS

LUMOTAST 25 - KEYLOCK SWITCHES



## LUMOTAST 25 Keylock switch

Technical data see page 1 - 26

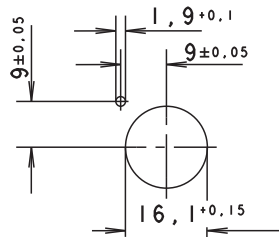


Panel cut-out

| → Contact arrangement | Contact function | Rotating angle | Key removal position | Color of lens | Order no.         |
|-----------------------|------------------|----------------|----------------------|---------------|-------------------|
| 1 NO                  | latching         | 90°            |                      | black opaque  | 1.15.156.001/0000 |
| 1 NO                  | latching         | 90°            |                      | black opaque  | 1.15.156.011/0000 |

Included: 2 keys.

# LUMOTAST 25 Emergency stop pushbuttons



Panel cut-out

→ Original manual see „Appendix“

### Technical Data

#### → General information

|                 |                 |
|-----------------|-----------------|
| Color of lens   | opaque red      |
| Form of collar  | square          |
| Color of collar | see order block |

#### → Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 18.5 mm |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### → Mechanical design

|                     |                                       |
|---------------------|---------------------------------------|
| Mounting            | ring nut                              |
| Terminals           | pin connector 4-pole / plug-in socket |
| Contact system      | snap-action contact                   |
| Contact function    | latching                              |
| Contact arrangement | 2 NC (forcibly actuated)              |
| Contact materials   | Au                                    |
| Illumination        | no                                    |
| Reset               | by pulling                            |

#### → Mechanical characteristics

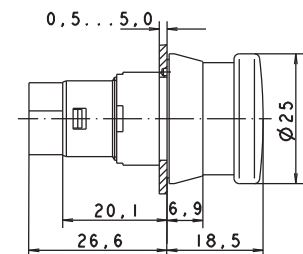
|                      |        |
|----------------------|--------|
| Operating force max. | 10 N   |
| Operating travel     | 2.6 mm |
| Switching travel     | 2 mm   |
| Robustness max.      | 100 N  |

#### → Electrical characteristics

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Rated voltage AC/DC max.             | 25 V                              |
| Rated voltage AC/DC min.             | 0.02 V                            |
| Rated current AC/DC max.             | 100 mA (1A short-circuit current) |
| Rated current AC/DC min.             | 0.01 mA                           |
| Contact resistance acc. to life max. | 100 mΩ                            |
| Bouncing time max.                   | 10 ms                             |

#### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Operating life (operations)          | 15,000                                   |
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |



### Approvals



IEC 60947-5-x,  
60204, 60073



LISTED  
UL 92X6














# PUSHBUTTONS

## LUMOTAST 25 - EMERGENCY STOP PUSHBUTTONS

### – Technical data (continued) – LUMOTAST 25 - Emergency stop pushbutton

|                 |     |
|-----------------|-----|
| Weight          | 9 g |
| ROHS compliant  | yes |
| REACH compliant | yes |

### Accessories LUMOTAST 25 - Emergency stop pushbutton

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Plug-in socket for PCB  |     | 5.00.645.036/0000 | 5 - 28                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |     | 5.03.771.306/0000 | 5 - 29                          |
| Blanking cap complete with sealing disc and ring nut, square                              |     | 5.05.800.049/0100 | 2 - 83, 5 - 23                  |
| Label holder, flush, for square collar  |     | 5.07.620.004/0000 | 2 - 80                          |
| Flat ribbon cable, 4-wire, 1 m long   |    | 5.37.700.124/0000 | 5 - 28                          |
| Fixing spanner M 15, M 16   |  | 5.58.002.019/0105 | 5 - 25                          |
| Legend label 23 x 16 for label holder, without legend                                     |   | 5.73.111.000/0000 | -                               |
| Adhesive label yellow, round 16.1 / 60 mm, without legend                                 |   | 5.76.204.425/0400 | -                               |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „Not-Aus“                          |   | 5.76.204.426/0400 | -                               |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRET-D'URGENCE“                  |   | 5.76.204.427/0400 | -                               |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „EMERGENCY-STOP“                   |   | 5.76.204.428/0400 | -                               |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRESTO-D'EMERGENZA“              |   | 5.76.204.429/0400 | -                               |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |

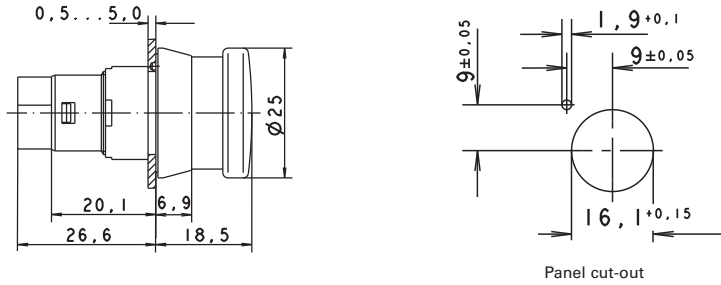
1

LUMO  
25

### LUMOTAST 25 Emergency stop pushbutton, ring nut fixing



Technical data see page 1 - 29



| → Contact function | Contact arrangement      | Color of collar | Order no.         |
|--------------------|--------------------------|-----------------|-------------------|
| latching           | 2 NC (forcibly actuated) | yellow          | 1.15.154.016/0301 |
| latching           | 2 NC (forcibly actuated) | black           | 1.15.154.006/0301 |

Original operating instructions see appendix.

# PUSHBUTTONS

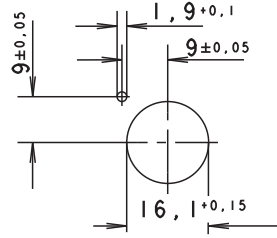
LUMOTAST 25 - SIGNAL LAMPS

1

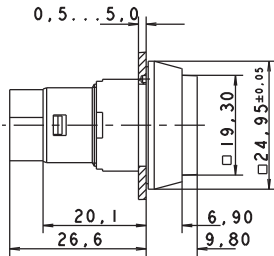
LUMO  
25



## LUMOTAST 25 Signal lamps



Panel cut-out



### Technical Data

#### → General information

|               |                 |
|---------------|-----------------|
| Form of lens  | square          |
| Color of lens | see order block |

#### → Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 9.8 mm  |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### → Mechanical design

|             |                                       |
|-------------|---------------------------------------|
| Mounting    | see order block                       |
| Terminals   | pin connector 4-pole / plug-in socket |
| Lamp socket | Bi-Pin T1 / T1¼                       |
| Lamp        | filament lamp / LED                   |

#### → Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 24 V  |
| Power limit max.   | 0.7 W |

#### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Weight                               | 7 g                                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |










### Accessories LUMOTAST 25 - Signal lamp

#### → Description

| Description                        | Photo | Order no.         | Additional accessories see page |
|------------------------------------|-------|-------------------|---------------------------------|
| Socket Bi-Pin T 1, LED             |       | -                 | 5 - 6                           |
| Socket Bi-Pin T 1, LED superbright |       | -                 | 5 - 6                           |
| Plug-in socket for PCB             |       | 5.00.645.036/0000 | 5 - 28                          |

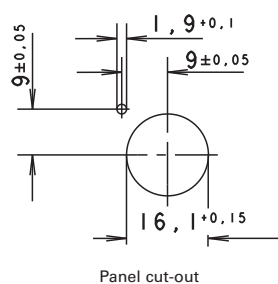
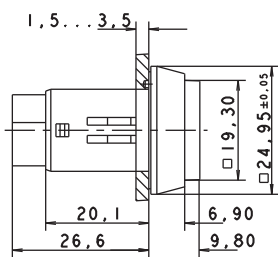


– Table (continued) –  
Accessories LUMOTAST 25 - Signal lamp

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |   | 5.03.771.306/0000 | 5 - 29                          |
| Disassembly tool for LUMOTAST 25, RAFIX 16  |  | 5.05.800.042/0000 | 5 - 27                          |
| Blanking cap complete with sealing disc and ring nut, square                              |   | 5.05.800.049/0100 | 2 - 83, 5 - 23                  |
| Label holder, flush, for square collar  |   | 5.07.620.004/0000 | 2 - 80                          |
| Flat ribbon cable, 4-wire, 1 m long   |   | 5.37.700.124/0000 | 5 - 28                          |
| Fixing spanner M 15, M 16   |  | 5.58.002.019/0105 | 5 - 25                          |
| Legend insert, blank, use only for transparent lenses                                     |   | 5.70.635.000/2000 | -                               |
| Legend label 23 x 16 for label holder, without legend                                     |   | 5.73.111.000/0000 | -                               |
| Socket connector, 4-pin   |   | 5.92.025.368/0000 | 5 - 28                          |

## LUMOTAST 25 Signal lamp, 24 V, „Click“ quick-assembly feature

Technical data see page 1 - 32



| → Voltage limit max. | Power limit max. | Lamp socket     | Order no.         | Note   |
|----------------------|------------------|-----------------|-------------------|--|
| 24 V                 | 0.7 W            | Bi-Pin T1 / T1¼ | 1.65.122.906/0000 | Please include the desired lens in your order. |

Do not press in lens in disassembled condition.  
Please note when using a LED: A notch on the lamp identifies the cathode side (-).

**Lenses:**

- Lens, square, transparent colorless: 5.49.077.014/1002
- Lens, square, transparent red: 5.49.077.014/1306
- Lens, square, transparent yellow: 5.49.077.014/1403
- Lens, square, transparent green: 5.49.077.014/1505
- Lens, square, transparent blue: 5.49.077.014/1607

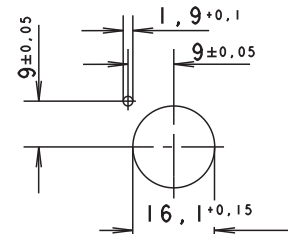
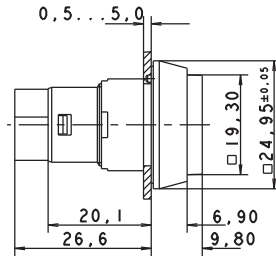
# PUSHBUTTONS

LUMOTAST 25 - SIGNAL LAMPS



## LUMOTAST 25 Signal lamp, 24 V, ring nut fixing

Technical data see page 1 - 32



Panel cut-out

| → Voltage limit max. | Power limit max. | Lamp socket    | Order no.         | Note   |
|----------------------|------------------|----------------|-------------------|--|
| 24 V                 | 0.7 W            | Bi-PinT1 / T1¼ | 1.65.122.956/0000 | Please include the desired lens in your order. |

Please note when using LED: A notch on the lamp socket identifies the cathode side (-).

### Lenses:

- Lens, square, transparent colorless: 5.49.077.014/1002
- Lens, square, transparent red: 5.49.077.014/1306
- Lens, square, transparent yellow: 5.49.077.014/1403
- Lens, square, transparent green: 5.49.077.014/1505
- Lens, square, transparent blue: 5.49.077.014/1607



## LUMOTAST 75 IP40

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### LUMOTAST 75 IP40 - Pushbutton range

Illuminated pushbuttons, signal lamps and keylock switches

- Mounting hole diameter 16.2 mm
  - Degree of protection IP40 acc. DIN EN 60529
  - Solder terminals for the following wire cross-sections:
    - Installed 0.5 mm<sup>2</sup> max.
    - Factory terminated 0.35 mm<sup>2</sup> max.
  - 250 V/4 A max.
  - 2 NC + 2 NO max.
  - Lamp socket T 4.5
  - Illumination: LED / filament lamp
  - All products are RoHS compliant.
-

# PUSHBUTTONS

LUMOTAST 75 IP40

## Content

### LUMOTAST 75 IP40 Illuminated pushbuttons

|   |        |
|---|--------|
| LUMOTAST 75 IP40 Illuminated pushbutton, protruding lens, round collar  | 1 - 37 |
| LUMOTAST 75 IP40 Illuminated pushbutton, protruding lens, round collar  | 1 - 39 |
| LUMOTAST 75 IP40 Illuminated pushbutton, flush lens, square collar      | 1 - 39 |
| LUMOTAST 75 IP40 Illuminated pushbutton, protruding lens, square collar | 1 - 40 |
| LUMOTAST 75 IP40 Illuminated pushbutton, flush lens, rectangular collar | 1 - 41 |

### LUMOTAST 75 IP40 Keylock switches

|   |        |
|---|--------|
| LUMOTAST 75 IP40 Keylock switch, round collar       | 1 - 42 |
| LUMOTAST 75 IP40 Keylock switch, round collar       | 1 - 43 |
| LUMOTAST 75 IP40 Keylock switch, rectangular collar | 1 - 44 |

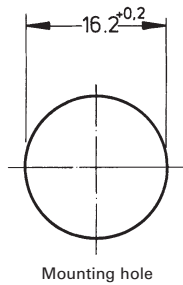
### LUMOTAST 75 IP40 Signal lamps with lamp socket T 4.5

|  |        |
|--|--------|
| LUMOTAST 75 IP40 Signal lamp with lamp socket T 4.5, round collar, protruding lens | 1 - 45 |
| LUMOTAST 75 IP40 Signal lamp with lamp socket T 4.5, round collar, protruding lens | 1 - 46 |
| LUMOTAST 75 IP40 Signal lamp, square collar, flush lens                            | 1 - 47 |
| LUMOTAST 75 IP40 Signal lamp, square collar, protruding lens                       | 1 - 47 |
| LUMOTAST 75 IP40 Signal lamp, rectangular collar, flush lens                       | 1 - 48 |

1

LUMO  
75 (40)

# LUMOTAST 75 IP40 Illuminated pushbuttons

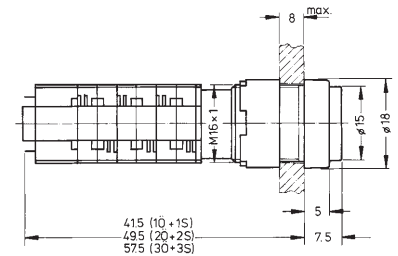


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LUMO  
75 (40)

## Technical Data

|  |                                       |
|--|---------------------------------------|
| <b>→ General information</b>                   |                                       |
| Form of lens                                   | see order block                       |
| Form of collar                                 | see order block                       |
| Color of collar                                | see order block                       |
| <b>→ Dimensions</b>                            |                                       |
| Length of collar                               | see order block                       |
| Width of collar                                | see order block                       |
| Diameter of collar                             | see order block                       |
| Overall height                                 | 7.5 mm                                |
| Mounting depth                                 | 41.5/49.5/57.5 mm                     |
| Mounting hole                                  | 16.2 mm                               |
| <b>→ Mechanical design</b>                     |                                       |
| Mounting                                       | ring nut                              |
| Terminals                                      | solder terminals                      |
| Contact system                                 | snap-action bridge contact            |
| Contact function                               | see order block                       |
| Contact arrangement                            | see order block                       |
| Contact materials                              | Ag                                    |
| Illumination                                   | LED                                   |
| Lamp socket                                    | T 4.5                                 |
| <b>→ Mechanical characteristics</b>            |                                       |
| Operating force max.                           | 3 ... 6.5 N                           |
| Operating travel                               | 2.7 mm                                |
| Switching travel NC                            | 1.6 mm                                |
| Switching travel NO                            | 0.9 mm                                |
| Robustness max.                                | 100 N                                 |
| <b>→ Electrical characteristics</b>            |                                       |
| Rated voltage AC max.                          | 250 V                                 |
| Rated voltage DC max.                          | 230 V                                 |
| Rated voltage AC/DC min.                       | 12 V                                  |
| Rated current AC max.                          | 4 A                                   |
| Rated current DC max.                          | 0.2 A                                 |
| Rated current AC/DC min.                       | 5 mA                                  |
| Contact resistance acc. to life max.           | 200 mΩ                                |
| Protection class                               | II                                    |
| ESD-strength min.                              | 14 kV                                 |
| <b>→ Other specifications</b>                  |                                       |
| Operating life, at 250 V/2 A (operations)      | 200,000 (momentary)                   |
| Operating life, at 250 V/4 A (operations)      | 60,000 (momentary), 10,000 (latching) |
| Degree of protection from front side           | IP40 (DIN EN 60529)                   |
| Operation temperature min.                     | -25 °C                                |
| Ambient temp. operating max. without lamp /LED | +70 °C                                |



## Approvals



ENEC 25T70  
without lamp,  
25T55 with lamp



UL 508



C22.2  
No. 14-M91



# PUSHBUTTONS

LUMOTAST 75 IP40 - ILLUMINATED PUSHBUTTONS









1

## – Technical data (continued) – LUMOTAST 75 IP40 - Illuminated pushbutton

|   |  |
|---|--|
| Ambient temp. operating max. with lamp /LED | +55 °C                                   |
| Storage temperature min.                    | -40 °C                                   |
| Storage temperature max.                    | +80 °C                                   |
| Environmental resistance                    | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Flame class acc. to UL 94                   | V 1                                      |
| Hot wire ignition acc. to IEC 60695-2-1     | yes                                      |
| ROHS compliant                              | yes                                      |
| REACH compliant                             | yes                                      |

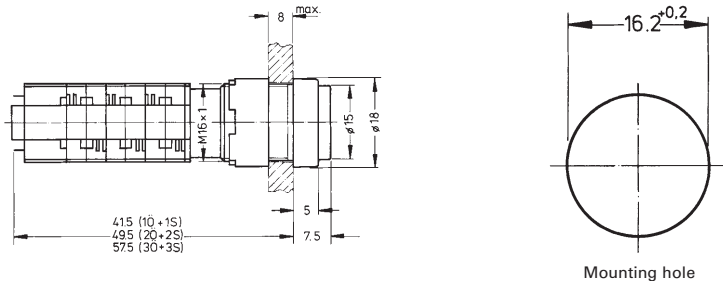
## Accessories LUMOTAST 75 IP40 - Illuminated pushbutton

LUMO  
75 (40)

| → Description  | Photo  | Order no.         | Additional accessories see page |
|--|--|-------------------|---------------------------------|
| Socket T 4.5, LED  |     | -                 | 5 - 7                           |
| Socket T 4.5, LED superbright                                    |     | -                 | 5 - 7                           |
| Lamp extractor for lamp diameter 4 mm                            |   | 1.90.900.002/0000 | 5 - 26                          |
| Lamp extractor for lamp diameter 5-6 mm                          |  | 1.90.900.004/0000 | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |   | 5.52.006.020/0103 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |   | 5.52.006.021/0100 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |   | 5.52.006.022/0100 | 5 - 22                          |
| Fixing spanner M 15, M 16  |  | 5.58.002.019/0105 | 5 - 25                          |

## LUMOTAST 75 IP40 Illuminated pushbutton, protruding lens, round collar

Technical data see page 1 - 37



LUMO  
75 (40)

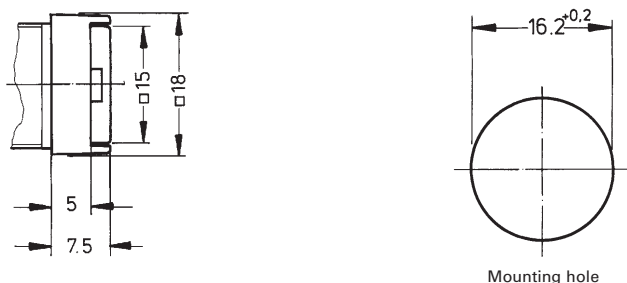
| → Contact arrangement | Contact function | Color of collar | Order no.         | Note  |
|-----------------------|------------------|-----------------|-------------------|---|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.451/0000 | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.551/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.452/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.552/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, round, transparent colorless, for LED: 5.49.257.011/1002  
 Lens, round, transparent red, for LED: 5.49.257.011/1301  
 Lens, round, transparent yellow, for LED: 5.49.257.011/1402  
 Lens, round, transparent green, for LED: 5.49.257.011/1503  
 Diffuser, round, for LED, without legend: 5.72.050.000/0214

## LUMOTAST 75 IP40 Illuminated pushbutton, flush lens, square collar

Technical data see page 1 - 37



| → Contact arrangement | Contact function | Color of collar | Order no.         | Note  |
|-----------------------|------------------|-----------------|-------------------|---|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.251/0000 | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.351/0000 | Please include the desired lens and diffuser in your order. |

# PUSHBUTTONS

LUMOTAST 75 IP40 - ILLUMINATED PUSHBUTTONS

1

– Table (continued) –

## LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, square collar

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note  |
|-----------------------|------------------|-----------------|-------------------|---|
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.252/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.352/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.275.036/1002

Lens, square, transparent red, for LED: 5.49.275.036/1301

Lens, square, transparent yellow, for LED: 5.49.275.036/1402

Lens, square, transparent green, for LED: 5.49.275.036/1503

Diffuser, square, for LED, without legend: 5.73.013.000/0214

### Accessoires:

LUMOTAST 75 IP40 - Protective cap for 18 x 18 collar: 5.05.800.030/0000

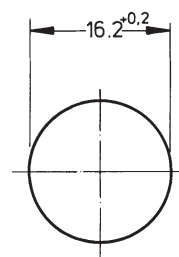
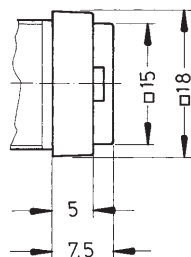
LUMOTAST 75 IP40 - Sealing cap for protection class IP 65, for 18 x 18 collar: 5.05.200.009/0000

LUMO  
75 (40)



## LUMOTAST 75 IP40 Illuminated pushbutton, protruding lens, square collar

Technical data see page 1 - 37



Mounting hole

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note  |
|-----------------------|------------------|-----------------|-------------------|---|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.256/0000 | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.356/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.257/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.357/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.275.036/1002

Lens, square, transparent red, for LED: 5.49.275.036/1301

Lens, square, transparent yellow, for LED: 5.49.275.036/1402

Lens, square, transparent green, for LED: 5.49.275.036/1503

Diffuser, square, for LED, without legend: 5.73.013.000/0214

### Accessoires:

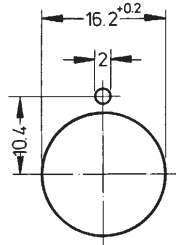
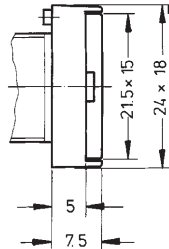
LUMOTAST 75 IP40 - Protective cap for 18 x 18 collar: 5.05.800.030/0000

LUMOTAST 75 IP40 - Sealing cap for protection class IP 65, for 18 x 18 collar: 5.05.200.009/0000



## LUMOTAST 75 IP40 Illuminated pushbutton, flush lens, rectangular collar

Technical data see page 1 - 37



Panel cut-out



1

LUMO  
75 (40)

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note  |
|-----------------------|------------------|-----------------|-------------------|---|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.051/0000 | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.151/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.052/0000 | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.152/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, rectangular, transparent colorless, for LED: 5.49.275.032/1002

Lens, rectangular, transparent red, for LED: 5.49.275.032/1301

Lens, rectangular, transparent yellow, for LED: 5.49.275.032/1402

Lens, rectangular, transparent green, for LED: 5.49.275.032/1503

Diffuser, rectangular, for LED, without legend: 5.73.012.000/0214

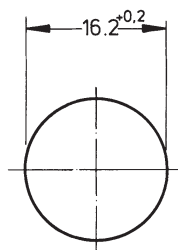
### Accessoires:

LUMOTAST 75 IP40 - Protective cap for 18 x 24 collar: 5.05.800.027/0000

LUMOTAST 75 IP40 - Sealing cap for protection class IP65, for 18 x 24 collar: 5.05.200.008/0000



## LUMOTAST 75 IP40 Keylock switches



Mounting hole

→ The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

### Technical Data

#### → General information

|                 |                 |
|-----------------|-----------------|
| Form of lens    | see order block |
| Color of collar | see order block |
| Form of collar  | see order block |

#### → Dimensions

|                              |                 |
|------------------------------|-----------------|
| Length of collar             | see order block |
| Diameter of collar           | see order block |
| Width of collar              | see order block |
| Overall height (without key) | 7.5 mm          |
| Mounting depth               | see order block |
| Mounting hole                | 16.2 mm         |

#### → Mechanical design

|                             |                            |
|-----------------------------|----------------------------|
| Mounting                    | ring nut                   |
| Terminals                   | solder terminals           |
| Contact system              | snap-action bridge contact |
| Contact function            | see order block            |
| Contact arrangement         | see order block            |
| Contact materials           | Ag                         |
| Illumination                | no                         |
| Lock                        | cylinder lock              |
| Wafers                      | 4 pins                     |
| Lock type                   | 1D 21                      |
| Number of locking positions | 45                         |
| Main key                    | no                         |
| Symmetric key               | no                         |
| Key removal position        | see order block            |

#### → Mechanical characteristics

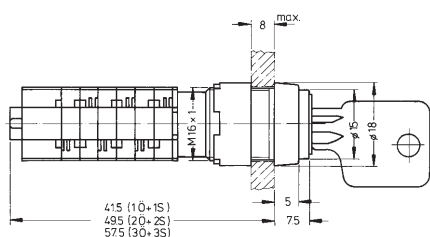
|                |                 |
|----------------|-----------------|
| Rotating angle | see order block |
|----------------|-----------------|

#### → Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated voltage DC max.                | 230 V  |
| Rated voltage AC/DC min.             | 12 V   |
| Rated current AC max.                | 4 A    |
| Rated current DC max.                | 0,2 A  |
| Rated current AC/DC min.             | 5 mA   |
| Contact resistance acc. to life max. | 200 mΩ |
| ESD-strength min.                    | 14 kV  |

#### → Other specifications

|   |                     |
|---|---------------------|
| Operating life, at 250 V/2 A (operations) | 50,000 (momentary)  |
| Operating life, at 250 V/4 A (operations) | 50,000 (momentary)  |
| Degree of protection from front side      | IP40 (DIN EN 60529) |



### Approvals



ENEC 25T70



UL 508








C22.2  
No. 14-M91



**- Technical data (continued) -  
LUMOTAST 75 IP40 - Keylock switch**

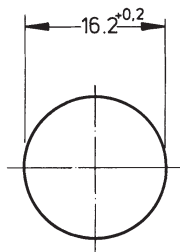
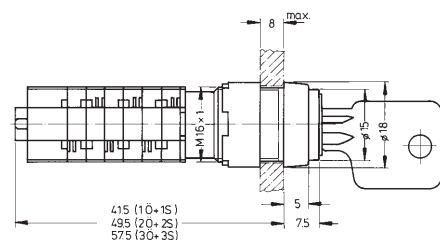
|   |  |
|---|--|
| Operation temperature min.              | -25 °C                                   |
| Ambient temp. operating max.            | +70 °C                                   |
| Storage temperature min.                | -40 °C                                   |
| Storage temperature max.                | +80 °C                                   |
| Environmental resistance                | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                                  | 35 g                                     |
| Flame class acc. to UL 94               | V 1                                      |
| Hot wire ignition acc. to IEC 60695-2-1 | yes                                      |
| ROHS compliant                          | yes                                      |
| REACH compliant                         | yes                                      |

**Accessories LUMOTAST 75 IP40 - Keylock switch**

| → Description  | Photo   | Order no.         | Additional accessories see page |
|--|---|-------------------|---------------------------------|
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |    | 5.52.006.021/0100 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |    | 5.52.006.022/0100 | 5 - 22                          |
| Fixing spanner M 15, M 16  |  | 5.58.002.019/0105 | 5 - 25                          |
| Keylock switch cap   |  | 5.58.002.030/0000 | -                               |
| LUMOTAST 75 - Spare key (1 piece)                                |  | 5.58.004.721/0000 | -                               |



## LUMOTAST 75 IP40 Keylock switch, round collar

Technical data see page 1 - 42



Mounting hole






| → Contact arrangement | Contact function | Rotating angle | Key removal position  | Color of collar | Order no.         |
|-----------------------|------------------|----------------|---|-----------------|-------------------|
| 1 NC + 1 NO           | momentary        | 45°            |  | black           | 1.15.108.941/0000 |
| 1 NC + 1 NO           | latching         | 90°            |  | black           | 1.15.108.851/0000 |

# PUSHBUTTONS

LUMOTAST 75 IP40 - KEYLOCK SWITCHES

1

– Table (continued) –  
LUMOTAST 75 IP40 - Keylock switch, round collar

| → Contact arrangement | Contact function | Rotating angle |   | Key removal position | Color of collar | Order no.         |
|-----------------------|------------------|----------------|---|----------------------|-----------------|-------------------|
| 1 NC + 1 NO           | latching         | 90°            |  | 0+1                  | black           | 1.15.108.911/0000 |
| 2 NC + 2 NO           | latching         | 90°            |  | 0                    | black           | 1.15.108.852/0000 |
| 2 NC + 2 NO           | latching         | 90°            |  | 0+1                  | black           | 1.15.108.912/0000 |

Included: 2 keys.

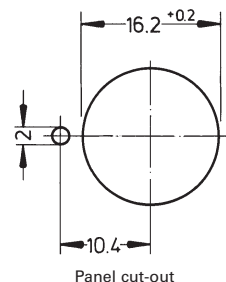
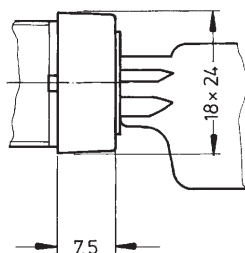
Other lock variants and contact arrangements available on request.

LUMO  
75 (40)








## LUMOTAST 75 IP40 Keylock switch, rectangular collar

Technical data see page 1 - 42



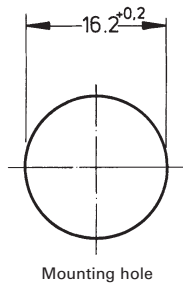
Panel cut-out

| → Contact arrangement | Contact function | Rotating angle |   | Key removal position | Color of collar | Order no.         |
|-----------------------|------------------|----------------|---|----------------------|-----------------|-------------------|
| 1 NC + 1 NO           | momentary        | 45°            |  | 0                    | black           | 1.15.108.661/0100 |
| 1 NC + 1 NO           | latching         | 90°            |  | 0                    | black           | 1.15.108.571/0100 |
| 1 NC + 1 NO           | latching         | 90°            |  | 0+1                  | black           | 1.15.108.631/0100 |
| 2 NC + 2 NO           | latching         | 90°            |  | 0                    | black           | 1.15.108.572/0100 |
| 2 NC + 2 NO           | latching         | 90°            |  | 0+1                  | black           | 1.15.108.632/0100 |

Included: 2 keys.

Other lock variants and contact arrangements available on request.

## LUMOTAST 75 IP40 Signal lamps with lamp socket T 4.5

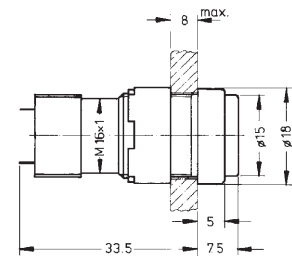


1

LUMO  
75 (40)

### Technical Data

|                                      |  |
|--------------------------------------|--|
| <b>→ General information</b>         |  |
| Form of lens                         | see order block                          |
| Form of collar                       | see order block                          |
| Color of collar                      | see order block                          |
| <b>→ Dimensions</b>                  |  |
| Length of collar                     | see order block                          |
| Width of collar                      | see order block                          |
| Diameter of collar                   | see order block                          |
| Overall height                       | 7.5 mm                                   |
| Mounting depth                       | 33.5 mm                                  |
| Mounting hole                        | 16.2 mm                                  |
| <b>→ Mechanical design</b>           |  |
| Mounting                             | ring nut                                 |
| Terminals                            | solder terminals                         |
| Lamp socket                          | T 4.5                                    |
| Illumination                         | LED / filament lamp                      |
| <b>→ Electrical characteristics</b>  |  |
| Voltage limit max.                   | 35 V                                     |
| Power limit max.                     | 1.2 W                                    |
| <b>→ Other specifications</b>        |  |
| Degree of protection from front side | IP40 (DIN EN 60529)                      |
| Weight                               | 5 g                                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +55 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |



### Approvals



IEC 61058



UL 508



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### Accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

| Description                   | Photo | Order no. | Additional accessories see page |
|-------------------------------|-------|-----------|---------------------------------|
| Socket T 4.5, LED             |       | -         | 5 - 7                           |
| Socket T 4.5, LED superbright |       | -         | 5 - 7                           |





# PUSHBUTTONS

LUMOTAST 75 IP40 - SIGNAL LAMPS WITH LAMP SOCKET T 4.5

1

– Table (continued) –

## Accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

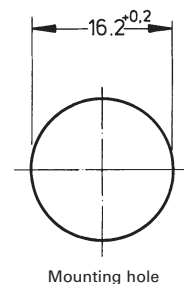
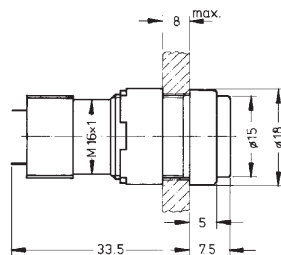
| → Description  | Photo  | Order no.         | Additional accessories see page |
|--|--|-------------------|---------------------------------|
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |   | 5.52.006.020/0103 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |   | 5.52.006.021/0100 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |   | 5.52.006.022/0100 | 5 - 22                          |
| Fixing spanner M 15, M 16  |  | 5.58.002.019/0105 | 5 - 25                          |

LUMO  
75 (40)



## LUMOTAST 75 IP40 Signal lamp with lamp socket T 4.5, round collar, protruding lens

Technical data see page 1 - 45



Mounting hole

| → Voltage limit max. | Power limit max. | Lamp socket | Color of collar | Order no.         | Note  |
|----------------------|------------------|-------------|-----------------|-------------------|---|
| 35 V                 | 1.2 W            | T 4.5       | black           | 1.65.111.071/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, round, transparent colorless, for LED: 5.49.257.011/1002

Lens, round, transparent red, for LED: 5.49.257.011/1301

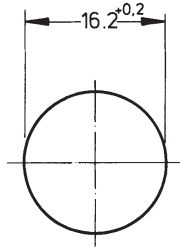
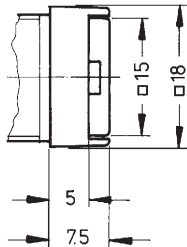
Lens, round, transparent yellow, for LED: 5.49.257.011/1402

Lens, round, transparent green, for LED: 5.49.257.011/1503

Diffuser, round, for LED, without legend: 5.72.050.000/0214

## LUMOTAST 75 IP40 Signal lamp, square collar, flush lens

Technical data see page 1 - 45



Mounting hole



1

LUMO  
75 (40)

| → Voltage limit max. | Power limit max. | Lamp socket | Color of collar | Order no.         | Note  |
|----------------------|------------------|-------------|-----------------|-------------------|---|
| 35 V                 | 1.2 W            | T 4.5       | black           | 1.65.111.061/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.275.036/1002

Lens, square, transparent red, for LED: 5.49.275.036/1301

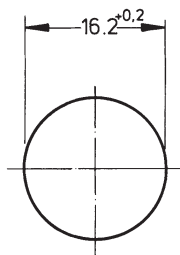
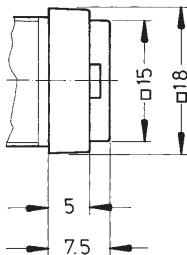
Lens, square, transparent yellow, for LED: 5.49.275.036/1402

Lens, square, transparent green, for LED: 5.49.275.036/1503

Diffuser, square, for LED, without legend: 5.73.013.000/0214

## LUMOTAST 75 IP40 Signal lamp, square collar, protruding lens

Technical data see page 1 - 45



Mounting hole



| → Voltage limit max. | Power limit max. | Lamp socket | Color of collar | Order no.         | Note  |
|----------------------|------------------|-------------|-----------------|-------------------|---|
| 35 V                 | 1.2 W            | T 4.5       | black           | 1.65.111.081/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.275.036/1002

Lens, square, transparent red, for LED: 5.49.275.036/1301

Lens, square, transparent yellow, for LED: 5.49.275.036/1402

Lens, square, transparent green, for LED: 5.49.275.036/1503

# PUSHBUTTONS

LUMOTAST 75 IP40 - SIGNAL LAMPS WITH LAMP SOCKET T 4.5

– Table (continued) –

## LUMOTAST 75 IP40 - Signal lamp, square collar, protruding lens

Diffuser, square, for LED, without legend: 5.73.013.000/0214

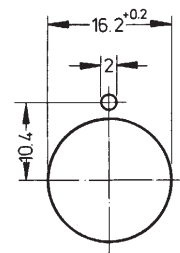
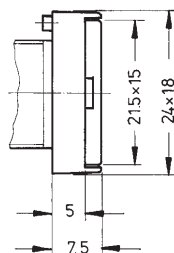
### Accessoires:

LUMOTAST 75 IP40 - Sealing cap for protection class IP 65, for 18 x 18 collar: 5.05.200.009/0000



## LUMOTAST 75 IP40 Signal lamp, rectangular collar, flush lens

Technical data see page 1 - 45



Panel cut-out

| → Voltage limit max. | Power limit max. | Lamp socket | Color of collar | Order no.         | Note  |
|----------------------|------------------|-------------|-----------------|-------------------|---|
| 35 V                 | 1.2 W            | T 4.5       | black           | 1.65.111.051/0000 | Please include the desired lens and diffuser in your order. |

### Lenses:

Lens, rectangular, transparent colorless, for LED: 5.49.275.032/1002

Lens, rectangular, transparent red, for LED: 5.49.275.032/1301

Lens, rectangular, transparent yellow, for LED: 5.49.275.032/1402

Lens, rectangular, transparent green, for LED: 5.49.275.032/1503

Diffuser, rectangular, for LED, without legend: 5.73.012.000/0214

### Accessoires:

LUMOTAST 75 IP40 -Sealing cap for protection class IP65, for 18 x 24 collar: 5.05.200.008/0000





## LUMOTAST 75 IP65

---

### LUMOTAST 75 IP65 - Pushbutton range

Illuminated pushbuttons and signal lamps with lamp socket T 4.5

- Mounting hole diameter 16.2 mm
  - Degree of protection IP65 acc. to DIN EN 60529
  - Solder terminals for the following wire cross-sections:
    - Installed 0.5 mm<sup>2</sup> max.
    - Factory terminated 0.35 mm<sup>2</sup> max.
  - 250 V/4 A max.
  - 2 NC + 2 NO max.
  - Illumination: LED / filament lamp
  - All products are RoHS compliant.
-

# PUSHBUTTONS

LUMOTAST 75 IP65

1

## Content

### LUMOTAST 75 IP65 Illuminated pushbuttons

|   |        |
|---|--------|
| LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, round collar       | 1 - 51 |
| LUMOTAST 75 IP65 Illuminated pushbutton, protruding lens, round collar  | 1 - 53 |
| LUMOTAST 75 IP65 Illuminated pushbutton, protruding lens, round collar  | 1 - 53 |
| LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, square collar      | 1 - 54 |
| LUMOTAST 75 IP65 Illuminated pushbutton, protruding lens, square collar | 1 - 55 |
| LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, rectangular collar | 1 - 55 |

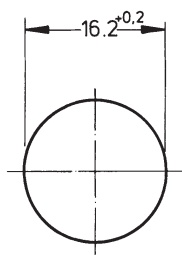
### LUMOTAST 75 IP65 Signal lamps

|  |        |
|--|--------|
| LUMOTAST 75 IP65 Signal lamp, flush lens, round collar       | 1 - 57 |
| LUMOTAST 75 IP65 Signal lamp, flush lens, round collar       | 1 - 58 |
| LUMOTAST 75 IP65 Signal lamp, protruding lens, round collar  | 1 - 59 |
| LUMOTAST 75 IP65 Signal lamp, flush lens, rectangular collar | 1 - 59 |
| LUMOTAST 75 IP65 Signal lamp, protruding lens, square collar | 1 - 60 |
| LUMOTAST 75 IP65 Signal lamp, flush lens, square collar      | 1 - 61 |

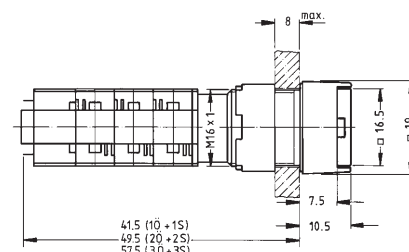
LUMO  
75 (65)

# LUMOTAST 75 IP65

## Illuminated pushbuttons



Mounting hole



### Technical Data

#### → General information

|                 |                 |
|-----------------|-----------------|
| Form of lens    | see order block |
| Color of lens   | see order block |
| Form of collar  | see order block |
| Color of collar | black           |

#### → Dimensions

|                    |                 |
|--------------------|-----------------|
| Length of collar   | see order block |
| Diameter of collar | see order block |
| Width of collar    | see order block |
| Overall height     | 10.5 mm         |
| Mounting depth     | see order block |
| Mounting hole      | 16.2 mm         |

#### → Mechanical design

|                     |                            |
|---------------------|----------------------------|
| Mounting            | ring nut                   |
| Terminals           | solder terminals           |
| Contact system      | snap-action bridge contact |
| Contact function    | see order block            |
| Contact arrangement | see order block            |
| Contact materials   | Ag                         |
| Illumination        | LED / filament lamp        |
| Lamp socket         | T 4.5                      |

#### → Mechanical characteristics

|                     |             |
|---------------------|-------------|
| Operating force     | 3 ... 6.5 N |
| Operating travel    | 2.5 mm      |
| Switching travel NC | 1.8 mm      |
| Switching travel NO | 0.9 mm      |
| Robustness max.     | 100 N       |

#### → Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated voltage DC max.                | 230 V  |
| Rated voltage AC/DC min.             | 12 V   |
| Rated current AC max.                | 4 A    |
| Rated current DC max.                | 0.2 A  |
| Rated current AC/DC min.             | 5 mA   |
| Contact resistance acc. to life max. | 200 mΩ |
| Protection class                     | II     |
| ESD-strength min.                    | 14 kV  |

#### → Other specifications

|   |  |
|---|--|
| Operating life, at 250 V/2 A (operations) | 200,000 (momentary), 50,000 (latching) |
| Operating life, at 250 V/4 A (operations) | 60,000 (momentary)                     |
| Degree of protection from front side      | IP65 (DIN EN 60529)                    |
| Operation temperature min.                | -25 °C                                 |

### Approvals



ENEC 25T70  
without lamp,  
25T55 with lamp



UL 508



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No. 14-M91



# PUSHBUTTONS

LUMOTAST 75 IP65 - ILLUMINATED PUSHBUTTONS









1

## – Technical data (continued) – LUMOTAST 75 IP65 - Illuminated pushbutton

|  |  |
|--|--|
| Ambient temp. operating max. without lamp /LED | +70 °C                                   |
| Ambient temp. operating max. with lamp /LED    | +55 °C                                   |
| Storage temperature min.                       | -40 °C                                   |
| Storage temperature max.                       | +80 °C                                   |
| Environmental resistance                       | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight   | 15 g                                     |
| Flame class acc. to UL 94                      | V 0                                      |
| Hot wire ignition acc. to IEC 60695-2-1        | yes                                      |
| ROHS compliant                                 | yes                                      |
| REACH compliant                                | yes                                      |

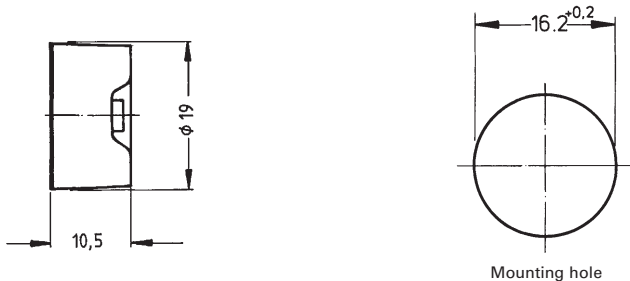
## Accessories LUMOTAST 75 IP65 - Illuminated pushbutton

LUMO  
75 (65)

| → Description  | Photo  | Order no.         | Additional accessories see page |
|--|--|-------------------|---------------------------------|
| Socket T 4.5, LED  |     | -                 | 5 - 7                           |
| Socket T 4.5, LED superbright                                    |    | -                 | 5 - 7                           |
| Lamp extractor for lamp diameter 4 mm                            |  | 1.90.900.002/0000 | 5 - 26                          |
| Lamp extractor for lamp diameter 5-6 mm                          |  | 1.90.900.004/0000 | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |   | 5.52.006.020/0103 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |   | 5.52.006.021/0100 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |   | 5.52.006.022/0100 | 5 - 22                          |
| Fixing spanner M 15, M 16  |  | 5.58.002.019/0105 | 5 - 25                          |

## LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, round collar

Technical data see page 1 - 51



1

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.481/0000 | Please include the desired lens in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.981/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.482/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.982/0000 | Please include the desired lens in your order. |

LUMO  
75 (65)

### Lenses:

Lens, round, transparent colorless, for LED: 5.49.259.013/1002

Lens, round, transparent red, for LED: 5.49.259.013/1301

Lens, round, transparent yellow, for LED: 5.49.259.013/1402

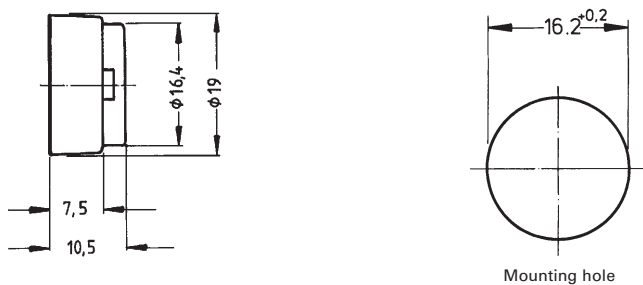
Lens, round, transparent green, for LED: 5.49.259.013/1503

### Accessoires:

Legend insert, round, without legend: 5.70.059.000/2000

## LUMOTAST 75 IP65 Illuminated pushbutton, protruding lens, round collar

Technical data see page 1 - 51



| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.476/0000 | Please include the desired lens in your order. |

# PUSHBUTTONS

LUMOTAST 75 IP65 - ILLUMINATED PUSHBUTTONS

1

– Table (continued) –

## LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, round collar

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | latching         | black           | 1.15.108.976/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.477/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.977/0000 | Please include the desired lens in your order. |

### Lenses:

Lens, round, transparent colorless, for LED: 5.49.259.013/1002

Lens, round, transparent red, for LED: 5.49.259.013/1301

Lens, round, transparent yellow, for LED: 5.49.259.013/1402

Lens, round, transparent green, for LED: 5.49.259.013/1503

### Accessoires:

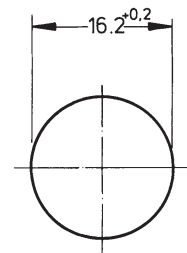
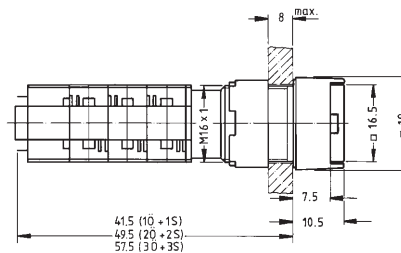
Legend insert, round, without legend: 5.70.059.000/2000

LUMO  
75 (65)



## LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, square collar

Technical data see page 1 - 51



Mounting hole

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.276/0000 | Please include the desired lens in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.376/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.277/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.377/0000 | Please include the desired lens in your order. |

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.277.052/1002

Lens, square, transparent red, for LED: 5.49.277.052/1301

Lens, square, transparent yellow, for LED: 5.49.277.052/1402

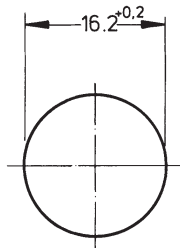
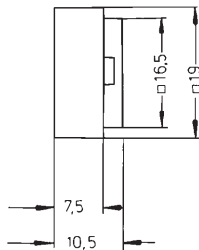
Lens, square, transparent green, for LED: 5.49.277.052/1503

### Accessoires:

Legend insert, square, without legend: 5.70.629.000/2000

## LUMOTAST 75 IP65 Illuminated pushbutton, protruding lens, square collar

Technical data see page 1 - 51



Mounting hole



1

| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.281/0000 | Please include the desired lens in your order. |
| 1 NC + 1 NO           | latching         | black           | 1.15.108.381/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | momentary        | black           | 1.15.108.282/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO           | latching         | black           | 1.15.108.382/0000 | Please include the desired lens in your order. |

LUMO  
75 (65)

### Lenses:

Lens, square, transparent colorless, for LED: 5.49.277.052/1002

Lens, square, transparent red, for LED: 5.49.277.052/1301

Lens, square, transparent yellow, for LED: 5.49.277.052/1402

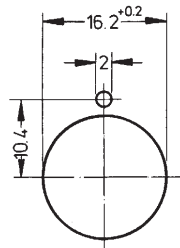
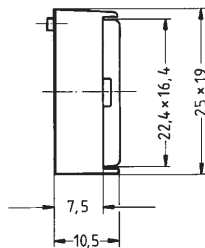
Lens, square, transparent green, for LED: 5.49.277.052/1503

### Accessoires:

Legend insert, square, without legend: 5.70.629.000/2000

## LUMOTAST 75 IP65 Illuminated pushbutton, flush lens, rectangular collar

Technical data see page 1 - 51



Panel cut-out



| → Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|-----------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO           | momentary        | black           | 1.15.108.076/0000 | Please include the desired lens in your order. |

# PUSHBUTTONS

LUMOTAST 75 IP65 - ILLUMINATED PUSHBUTTONS

→ **Table (continued) –**  
**LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, rectangular collar**

| Contact arrangement | Contact function | Color of collar | Order no.         | Note   |
|---------------------|------------------|-----------------|-------------------|--|
| 1 NC + 1 NO         | latching         | black           | 1.15.108.176/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black           | 1.15.108.077/0000 | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black           | 1.15.108.177/0000 | Please include the desired lens in your order. |

**Lenses:**

Lens, rectangular, transparent colorless, for LED: 5.49.277.058/1002

Lens, rectangular, transparent red, for LED: 5.49.277.058/1301

Lens, rectangular, transparent yellow, for LED: 5.49.277.058/1402

Lens, rectangular, transparent green, for LED: 5.49.277.058/1503

**Accessoires:**

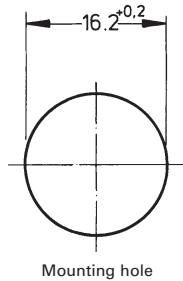
Legend insert, rectangular without legend: 5.70.630.000/2000

1

LUMO  
75 (65)



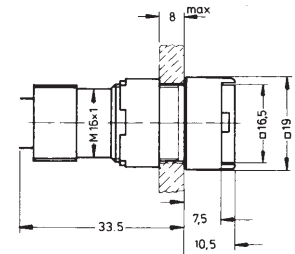
# LUMOTAST 75 IP65 Signal lamps



1

## Technical Data

|                                      |  |
|--------------------------------------|--|
| <b>→ General information</b>         |  |
| Form of lens                         | see order block                          |
| Form of collar                       | see order block                          |
| Diameter of collar                   | see order block                          |
| <b>→ Dimensions</b>                  |  |
| Length of collar                     | see order block                          |
| Width of collar                      | see order block                          |
| Overall height                       | 10.5 mm                                  |
| Mounting depth                       | 33.5 mm                                  |
| Mounting hole                        | 16.2 mm                                  |
| <b>→ Mechanical design</b>           |  |
| Mounting                             | ring nut                                 |
| Terminals                            | solder terminals                         |
| Lamp socket                          | T 4.5                                    |
| Lamp                                 | LED / filament lamp                      |
| <b>→ Electrical characteristics</b>  |  |
| Voltage limit max.                   | 35 V                                     |
| Power limit max.                     | 1.2 W                                    |
| <b>→ Other specifications</b>        |  |
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Weight                               | 5 g                                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +55 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |



LUMO  
75 (65)

## Approvals



IEC 61058



UL 508



C22.2 No.  
14-M91



## Accessories LUMOTAST 75 IP65 - Signal lamp






| Description                           | Photo | Order no.         | Additional accessories see page |
|---------------------------------------|-------|-------------------|---------------------------------|
| Socket T 4.5, LED                     |       | -                 | 5 - 7                           |
| Socket T 4.5, LED superbright         |       | -                 | 5 - 7                           |
| Lamp extractor for lamp diameter 4 mm |       | 1.90.900.002/0000 | 5 - 26                          |

# PUSHBUTTONS

LUMOTAST 75 IP65 - SIGNAL LAMPS

1

– Table (continued) –  
Accessories LUMOTAST 75 IP65 - Signal lamp

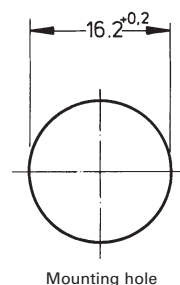
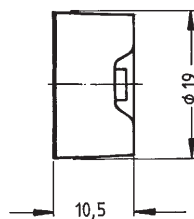
| → Description  | Photo  | Order no.         | Additional accessories see page |
|--|--|-------------------|---------------------------------|
| Lamp extractor for lamp diameter 5-6 mm                          |  | 1.90.900.004/0000 | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |   | 5.52.006.020/0103 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |   | 5.52.006.021/0100 | 5 - 22                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |   | 5.52.006.022/0100 | 5 - 22                          |
| Fixing spanner M 15, M 16  |  | 5.58.002.019/0105 | 5 - 25                          |

LUMO  
75 (65)



## LUMOTAST 75 IP65 Signal lamp, flush lens, round collar

Technical data see page 1 - 57



Mounting hole

| → Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no.         | Note   |
|----------------------|------------------|-------------|----------------|-------------------|--|
| 35 V                 | 1.2 W            | T 4.5       | round          | 1.65.111.096/0000 | Please include the desired lens in your order. |

For assembly, press the lens as far as possible.

**Lenses:**

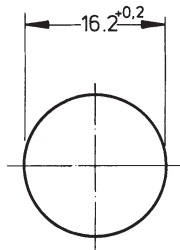
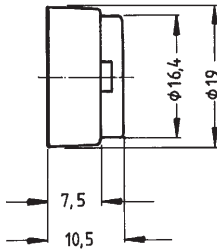
- Lens, round, transparent colorless, for LED: 5.49.259.013/1002
- Lens, round, transparent red, for LED: 5.49.259.013/1301
- Lens, round, transparent yellow, for LED: 5.49.259.013/1402
- Lens, round, transparent green, for LED: 5.49.259.013/1503

**Accessoires:**

- Legend insert, round, without legend: 5.70.059.000/2000

## LUMOTAST 75 IP65 Signal lamp, protruding lens, round collar

Technical data see page 1 - 57



Mounting hole



| → Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no.         | Note   |
|----------------------|------------------|-------------|----------------|-------------------|--|
| 35 V                 | 1.2 W            | T 4.5       | round          | 1.65.111.076/0000 | Please include the desired lens in your order. |

1

LUMO  
75 (65)

For assembly, press the lens as far as possible.

### Lenses:

Lens, round, transparent colorless, for LED: 5.49.259.013/1002

Lens, round, transparent red, for LED: 5.49.259.013/1301

Lens, round, transparent yellow, for LED: 5.49.259.013/1402

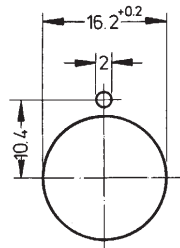
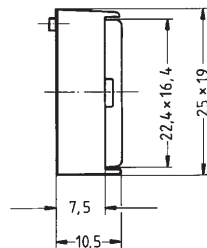
Lens, round, transparent green, for LED: 5.49.259.013/1503

### Accessoires:

Legend insert, round, without legend: 5.70.059.000/2000

## LUMOTAST 75 IP65 Signal lamp, flush lens, rectangular collar

Technical data see page 1 - 57



Panel cut-out



| → Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no.         | Note   |
|----------------------|------------------|-------------|----------------|-------------------|--|
| 35 V                 | 1.2 W            | T 4.5       | rectangular    | 1.65.111.056/0000 | Please include the desired lens in your order. |

For assembly, press the lens as far as possible.

# PUSHBUTTONS

LUMOTAST 75 IP65 - SIGNAL LAMPS

1

– Table (continued) –

## LUMOTAST 75 IP65 - Signal lamp, flush lens, rectangular collar

**Lenses:**

Lens, rectangular, transparent colorless, for LED: 5.49.277.058/1002

Lens, rectangular, transparent red, for LED: 5.49.277.058/1301

Lens, rectangular, transparent yellow, for LED: 5.49.277.058/1402

Lens, rectangular, transparent green, for LED: 5.49.277.058/1503

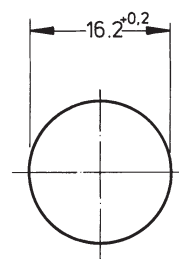
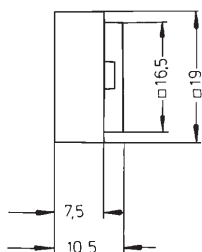
**Accessoires:**

Legend insert, rectangular without legend: 5.70.630.000/2000



## LUMOTAST 75 IP65 Signal lamp, protruding lens, square collar

Technical data see page 1 - 57



Mounting hole

LUMO  
75 (65)

| → Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no.         | Note   |
|----------------------|------------------|-------------|----------------|-------------------|--|
| 35 V                 | 1.2 W            | T 4.5       | square         | 1.65.111.086/0000 | Please include the desired lens in your order. |

For assembly, press the lens as far as possible.

**Lenses:**

Lens, square, transparent colorless, for LED: 5.49.277.052/1002

Lens, square, transparent red, for LED: 5.49.277.052/1301

Lens, square, transparent yellow, for LED: 5.49.277.052/1402

Lens, square, transparent green, for LED: 5.49.277.052/1503

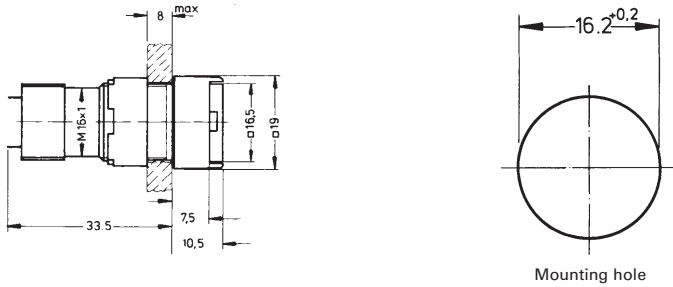
**Accessoires:**

Legend insert, square, without legend: 5.70.629.000/2000

## LUMOTAST 75 IP65

### Signal lamp, flush lens, square collar

Technical data see page 1 - 57



1

| → Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no.         | Note   |
|----------------------|------------------|-------------|----------------|-------------------|--|
| 35 V                 | 1.2 W            | T 4.5       | square         | 1.65.111.066/0000 | Please include the desired lens in your order. |

LUMO  
75 (65)

For assembly, press the lens as far as possible.

#### Lenses:

- Lens, square, transparent colorless, for LED: 5.49.277.052/1002
- Lens, square, transparent red, for LED: 5.49.277.052/1301
- Lens, square, transparent yellow, for LED: 5.49.277.052/1402
- Lens, square, transparent green, for LED: 5.49.277.052/1503

#### Accessoires:

- Legend insert, square, without legend: 5.70.629.000/2000





## Other keylock switches

---

Keylock switch for a mounting hole diameter of 16.2 mm

- 35 V max.
  - 100 mA
  - Design matches with LUMOTAST FK and LUMOTAST 75 IP40.
  - All products are RoHS compliant.
-

# PUSHBUTTONS

## OTHER KEYLOCK SWITCHES

---

1

### Content

#### Keylock switches

Keylock switch round collar

Keylock switch rectangular collar

1 - 65

1 - 66

1 - 67

#### Priority keylock switches

Priority keylock switch round collar

Priority keylock switch rectangular collar

Keylock switch PCB plug-in socket

1 - 68

1 - 69

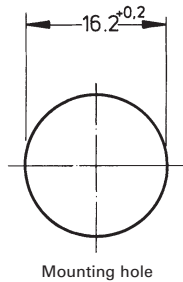
1 - 70

1 - 71

Key  
Swit-  
ches



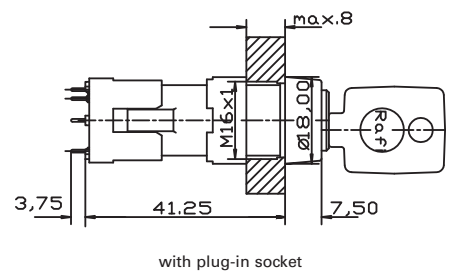
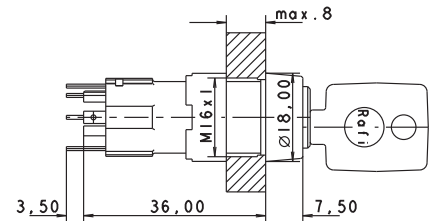
## KEYLOCK SWITCHES



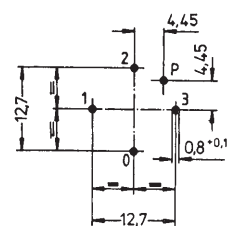
→ The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

### Technical Data

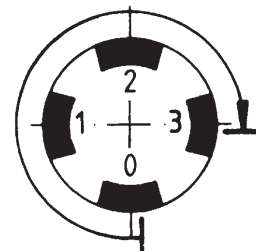
|                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>→ General information</b>         |                                       |
| Form of collar                       | see order block                       |
| <b>→ Dimensions</b>                  |                                       |
| Length of collar                     | see order block                       |
| Diameter of collar                   | see order block                       |
| Width of collar                      | see order block                       |
| Overall height                       | 7.5 mm                                |
| Mounting depth                       | 39.5 mm; with plug-in socket 41.25 mm |
| Mounting hole                        | 16.2 mm                               |
| <b>→ Mechanical design</b>           |                                       |
| Mounting                             | ring nut                              |
| Terminals                            | solder terminals                      |
| Contact system                       | sliding contact, self cleaning        |
| Contact function                     | latching                              |
| Contact arrangement                  | 1 NO at every switching position      |
| Contact materials                    | Au alloy                              |
| Illumination                         | no                                    |
| <b>→ Mechanical design of lock</b>   |                                       |
| Lock                                 | cylinder lock with pin tumblers       |
| Wafers                               | 5 pins                                |
| Lock type                            | 5001                                  |
| Number of locking positions          | 10,000                                |
| Main key                             | on request                            |
| Symmetric key                        | on request                            |
| Key removal position                 | see order block                       |
| <b>→ Mechanical characteristics</b>  |                                       |
| Operating force min.                 | 0.035 Nm                              |
| Operating force max.                 | 1.8 Nm                                |
| <b>→ Electrical characteristics</b>  |                                       |
| Rated voltage AC/DC max.             | 35 V                                  |
| Rated voltage AC/DC min.             | 5 V                                   |
| Rated current AC/DC max.             | 100 mA                                |
| Rated current AC/DC min.             | 5 mA                                  |
| ESD strength max.                    | 12 kV                                 |
| Insulation resistance                | $6 \times 10^8 \Omega$                |
| Contact resistance max.              | 200 m $\Omega$                        |
| <b>→ Other specifications</b>        |                                       |
| Operating life (operations)          | 50,000                                |
| Degree of protection from front side | IP65 (DIN EN 60529)                   |
| Operation temperature min.           | -25 °C                                |
| Ambient temp. operating max.         | +70 °C                                |
| Storage temperature min.             | -40 °C                                |
| Storage temperature max.             | +80 °C                                |



with plug-in socket



PCB hole pattern, sight on component side



# PUSHBUTTONS




## KEYLOCK SWITCHES

1

### – Technical data (continued) – Keylock switch

|                            |  |
|----------------------------|--|
| Environmental resistance   | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Soldering temperature max. | 350 °C                                   |
| Soldering time max.        | 3 s                                      |
| Weight                     | 29 g                                     |
| Rotating angle             | see order block                          |
| ROHS compliant             | yes                                      |
| REACH compliant            | yes                                      |

### Accessories Keylock switch

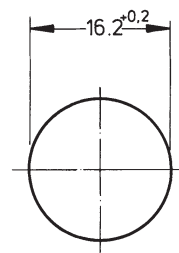
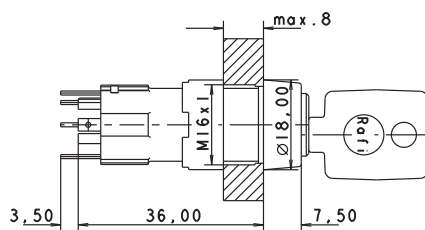
| → Description                   | Photo  | Order no.         | Additional accessories see page |
|---------------------------------|--|-------------------|---------------------------------|
| Plug-in socket for PCB mounting |   | 5.05.510.298/0000 | 1 - 71                          |
| Fixing spanner M 15, M 16       |  | 5.58.002.019/0105 | 5 - 25                          |
| Spare key (1 piece)             |   | 5.58.011.001/0000 | -                               |

Key Switches







## Keylock switch round collar

Technical data see page 1 - 65



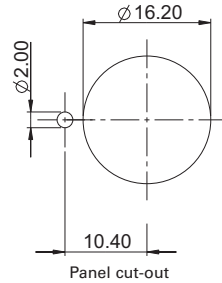
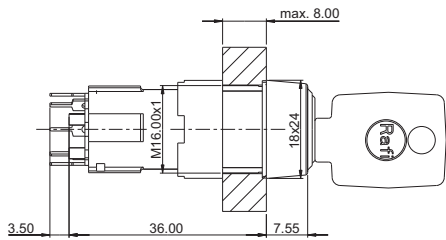
Mounting hole

| → Contact arrangement            | Contact function | Rotating angle | Key removal position  | Order no.         |
|----------------------------------|------------------|----------------|---|-------------------|
| 1 NO at every switching position | latching         | 1 x 90°        |  | 1.10.118.612/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        |  | 1.10.118.814/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        |  | 1.10.118.513/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        |  | 1.10.118.713/0000 |

Included: 2 keys.

## Keylock switch rectangular collar

Technical data see page 1 - 65



1

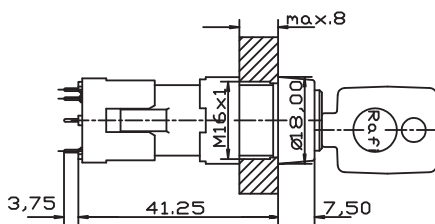
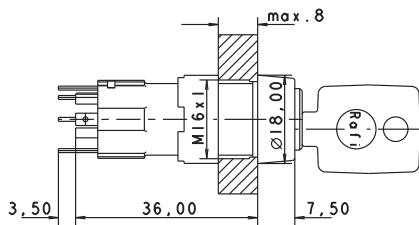
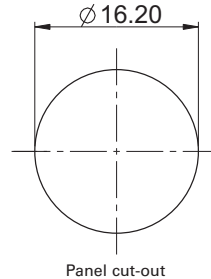
| → Contact arrangement            | Contact function | Rotating angle |  | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|--|----------------------|-------------------|
| 1 NO at every switching position | latching         | 1 x 90°        |  | 0+1                  | 1.10.118.212/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        |  | 0+1+2+3              | 1.10.118.414/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        |  | 0+1+2                | 1.10.118.313/0000 |

Included: 2 keys.

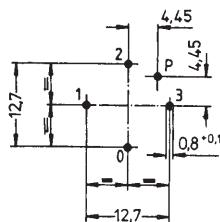
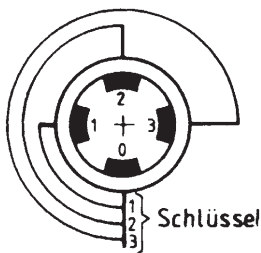
Key  
Swit-  
ches



# PRIORITY KEYLOCK SWITCHES



with plug-in socket



PCB hole pattern, sight on component side

→ The locking systems used in our switches are produced in accordance with DIN EN 1303 by leading lock manufacturers. The locking systems in key switches are open mechanical systems, which require occasional maintenance of the machinery or plant operator, according to the ambient conditions.

## Technical Data

### → General information

Form of collar see order block

### → Dimensions

Length of collar see order block  
 Diameter of collar see order block  
 Width of collar see order block  
 Overall height 7.5 mm  
 Mounting depth 39.5 mm; with plug-in socket 41.25 mm  
 Mounting hole 16.2 mm

### → Mechanical design

Mounting ring nut  
 Terminals solder terminals  
 Contact system sliding contact, self cleaning  
 Contact function latching  
 Contact arrangement 1 NO at every switching position  
 Contact materials Au alloy  
 Illumination no

### → Mechanical design of lock

Lock cylinder lock with pin tumblers  
 Wafers 5 pins  
 Lock type 5001  
 Number of locking positions 10,000  
 Main key yes  
 Symmetric key yes  
 Key removal position see order block

### → Mechanical characteristics

Operating force min. 0.035 Nm  
 Operating force max. 1.8 Nm

### → Electrical characteristics





Rated voltage AC/DC max. 35 V  
 Rated voltage AC/DC min. 5 V  
 Rated current AC/DC max. 100 mA  
 Rated current AC/DC min. 5 mA  
 ESD strength max. 12 kV  
 Insulation resistance  $6 \times 10^8 \Omega$   
 Contact resistance max. 200 m $\Omega$

### → Other specifications

**- Technical data (continued) -**  
**Priority keylock switch**

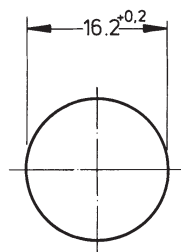
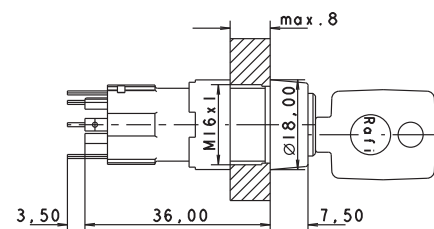
|                                      |  |
|--------------------------------------|--|
| Operating life (operations)          | 50,000                                   |
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Soldering temperature max.           | 350 °C                                   |
| Soldering time max.                  | 3 s                                      |
| Weight                               | 29 g                                     |
| Rotating angle                       | see order block                          |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |

**Accessories Priority keylock switch**

| → Description                               | Photo   | Order no.         | Additional accessories see page |
|---|---|-------------------|---------------------------------|
| Plug-in socket for PCB mounting             |    | 5.05.510.298/0000 | 1 - 71                          |
| Fixing spanner M 15, M 16                   |  | 5.58.002.019/0105 | 5 - 25                          |
| Set of spare keys (4 keys) for 3 x 90° type |  | 5.58.099.010/0000 | -                               |
| Set of spare keys (2 keys) for 2 x 90° type |  | 5.58.099.011/0000 | -                               |



## Priority keylock switch round collar

Technical data see page 1 - 68



Mounting hole




| → Contact arrangement            | Contact function | Rotating angle |   | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|---|----------------------|-------------------|
| 1 NO at every switching position | latching         | 3 x 90°        |  | 0                    | 1.10.119.617/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        |  | 0+1+2+3              | 1.10.119.967/0000 |

# PUSHBUTTONS

PRIORITY KEYLOCK SWITCHES

1

**– Table (continued) –**  
**Priority keylock switch - round collar**

| → Contact arrangement            | Contact function | Rotating angle |   | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|---|----------------------|-------------------|
| 1 NO at every switching position | latching         | 2 x 90°        |  | 0                    | 1.10.119.611/0000 |

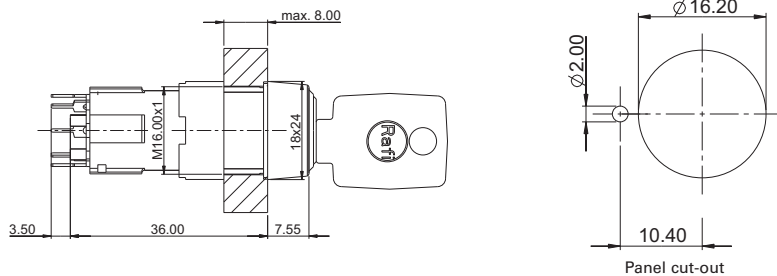
Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.

Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...






## Priority keylock switch rectangular collar

Technical data see page 1 - 68



Key Switches

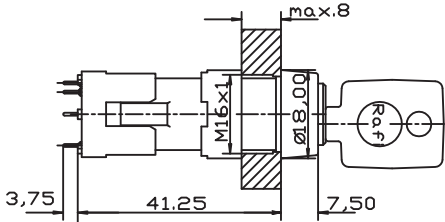
| → Contact arrangement            | Contact function | Rotating angle |   | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|---|----------------------|-------------------|
| 1 NO at every switching position | latching         | 3 x 90°        |  | 0                    | 1.10.119.117/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        |  | 0+1+2+3              | 1.10.119.467/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        |  | 0                    | 1.10.119.111/0000 |

Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.

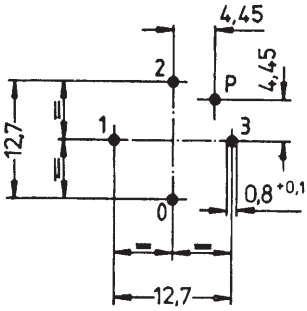
Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...

## Keylock switch PCB plug-in socket

Technical data see page 1 - 68



with plug-in socket



PCB hole pattern, sight on component side

| → Description                   | Order no.         |
|---------------------------------|-------------------|
| Plug-in socket for PCB mounting | 5.05.510.298/0000 |



Key  
Swit-  
ches







## Other pushbuttons

---

- Various pushbuttons for mounting hole diameters from 9.1 mm to 22.3 mm.
  - All products are RoHS compliant.
-

# PUSHBUTTONS

## OTHER PUSHBUTTONS

### Content

|   |               |
|---|---------------|
| <b>Pushbuttons non-illuminated 9.1 mm, 24 V / 100 mA</b>                                | <b>1 - 75</b> |
| Pushbutton non-illuminated mounting hole diameter 9.1 mm, 24 V / 100 mA                 | 1 - 76        |
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| Pushbutton mounting hole diameter 9.1 mm, 24 V / 0.5 A                                  | 1 - 78        |
| <b>Pushbuttons non-illuminated 15.2 mm, 250 V / 0.7 A</b>                               | <b>1 - 79</b> |
| Pushbutton non-illuminated mounting hole diameter 15.2 mm                               | 1 - 80        |
| <b>Pushbuttons non-illuminated 16.2 mm, 250 V / 2 A</b>                                 | <b>1 - 81</b> |
| Pushbutton non-illuminated mounting hole diameter 16.2 mm, 250 V / 2 A                  | 1 - 82        |
| <b>Pushbuttons non-illuminated 18.2 mm, 250 V / 2 A</b>                                 | <b>1 - 83</b> |
| Pushbutton non-illuminated mounting hole diameter 18.2 mm, 250 V / 2 A                  | 1 - 84        |
| <b>Pushbuttons illuminable 20.3 mm, 250 V / 2 A</b>                                     | <b>1 - 85</b> |
| Pushbutton with lamp socket BA9s (MBC/MCC), mounting hole diameter 20.3 mm, 250 V / 2 A | 1 - 86        |
| <b>LUMOTAST 22 E-Stop pushbuttons, 22.3 mm</b>  | <b>1 - 87</b> |
| LUMOTAST 22 E-Stop  | 1 - 88        |

1

Other  
Pushb.

# PUSHBUTTONS NON-ILLUMINATED 9.1 mm, 24 V / 100 mA



1

## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Color of lens  | see order block |
| Form of collar | round           |

### → Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 11 mm   |
| Overall height     | 4.5 mm  |
| Mounting depth     | 25.5 mm |
| Mounting hole      | 9.1 mm  |

### → Mechanical design

|                     |                  |
|---------------------|------------------|
| Mounting            | ring nut         |
| Terminals           | solder terminals |
| Contact system      | bridge contact   |
| Contact function    | momentary        |
| Contact arrangement | 1 NO             |
| Contact materials   | Ag               |
| Illumination        | no               |
| Lamp socket         | no               |

### → Mechanical characteristics

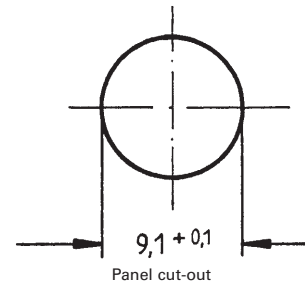
|                      |        |
|----------------------|--------|
| Operating force max. | 7 N    |
| Operating travel     | 2 mm   |
| Switching travel NO  | 1.3 mm |
| Robustness max.      | 100 N  |

### → Electrical characteristics

|                         |        |
|-------------------------|--------|
| Rated voltage AC max.   | 24 V   |
| Rated voltage DC max.   | 24 V   |
| Rated current max.      | 0.1 A  |
| Contact resistance max. | 200 mΩ |

### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Operating life (operations)          | 40,000                                   |
| Degree of protection from front side | IP40 (DIN EN 60529)                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Weight                               | 2 g                                      |
| Soldering time max.                  | 3 s                                      |
| Soldering temperature max.           | 350 °C                                   |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |



Other  
Pushb.

# PUSHBUTTONS

PUSHBUTTONS NON-ILLUMINATED - MOUNTING HOLE DIAMETER 9.1 MM

1

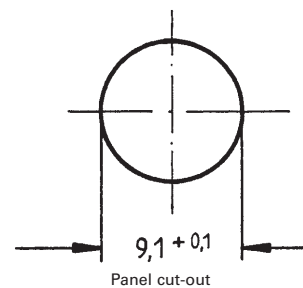
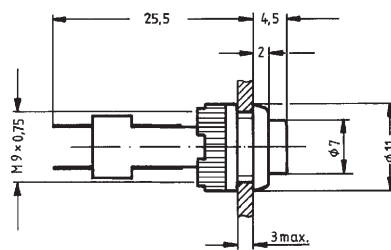
## Accessories Pushbutton non-illuminated - 9.1 mm, 24 V / 100 mA

| → Description            | Photo  | Order no.         | Additional accessories see page |
|--------------------------|--|-------------------|---------------------------------|
| Fixing spanner M 9, M 10 |  | 5.58.002.025/0105 | 5 - 25                          |



## Pushbutton non-illuminated mounting hole diameter 9.1 mm, 24 V / 100 mA

Technical data see page 1 - 75



Other Pushb.

| → Contact arrangement | Contact function | Color of lens | Order no.         |
|-----------------------|------------------|---------------|-------------------|
| 1 NO                  | momentary        | opaque red    | 1.10.107.011/0301 |
| 1 NO                  | momentary        | opaque yellow | 1.10.107.011/0404 |
| 1 NO                  | momentary        | opaque green  | 1.10.107.011/0507 |
| 1 NO                  | momentary        | opaque white  | 1.10.107.011/0205 |
| 1 NO                  | momentary        | opaque black  | 1.10.107.011/0104 |

# PUSHBUTTONS

## 9.1 mm, 24 V / 0.5 A

### Technical Data

#### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Color of lens  | see order block |
| Form of collar | round           |

#### → Dimensions

|                    |        |
|--------------------|--------|
| Diameter of collar | 11 mm  |
| Overall height     | 7 mm   |
| Mounting depth     | 25 mm  |
| Mounting hole      | 9.1 mm |

#### → Mechanical design

|                     |                  |
|---------------------|------------------|
| Mounting            | ring nut         |
| Terminals           | solder terminals |
| Contact system      | bridge contact   |
| Contact function    | momentary        |
| Contact arrangement | 1 NC + 1 NO      |
| Contact materials   | Au               |
| Illumination        | see order block  |
| Lamp socket         | no               |

#### → Mechanical characteristics

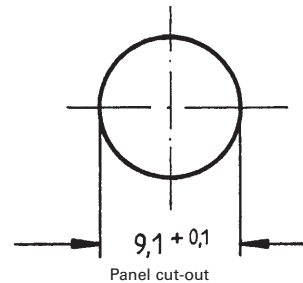
|                      |        |
|----------------------|--------|
| Operating force max. | 5 N    |
| Operating travel     | 1.5 mm |
| Switching travel NC  | 0.5 mm |
| Switching travel NO  | 1 mm   |
| Robustness max.      | 100 N  |

#### → Electrical characteristics

|                                      |                 |
|--------------------------------------|-----------------|
| Rated voltage AC/DC max.             | 24 V            |
| Rated voltage DC max.                | 24 V            |
| Rated current max.                   | 0.5 A           |
| Contact resistance when new max.     | 50 mΩ           |
| Contact resistance acc. to life max. | 300 mΩ          |
| Bouncing time max.                   | 10 ms           |
| Lamp voltage                         | see order block |

#### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Operating life key switch            | 200,000                                  |
| Degree of protection from front side | IP40 (DIN EN 60529)                      |
| Operation temperature min.           | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C, LED +55 °C                       |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Soldering temperature max.           | 350 °C                                   |
| Soldering time max.                  | 3 s                                      |
| Weight                               | 3 g                                      |
| LED operating voltage                | see order block                          |
| LED forward current                  | see order block                          |
| LED forward voltage                  | see order block                          |
| LED reverse voltage                  | see order block                          |
| LED reverse current                  | see order block                          |
| LED power dissipation                | see order block                          |
| LED series resistor 5-7 V            | see order block                          |
| LED series resistor 12-14 V          | see order block                          |
| LED series resistor 24-28 V          | see order block                          |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |



1

Other Pushb.

# PUSHBUTTONS

PUSHBUTTONS ILLUMINATED - MOUNTING HOLE DIAMETER 9.1 MM

1

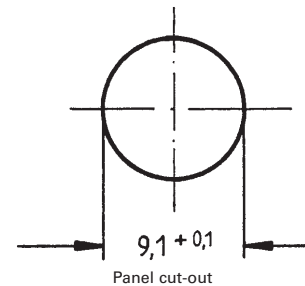
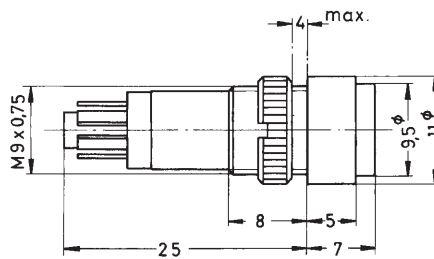
## Accessories Pushbutton - 9.1 mm, 24 V / 0.5 A

| → Description            | Photo  | Order no.         | Additional accessories see page |
|--------------------------|--|-------------------|---------------------------------|
| Fixing spanner M 9, M 10 |  | 5.58.002.025/0105 | 5 - 25                          |



## Pushbutton mounting hole diameter 9.1 mm, 24 V / 0.5 A

Technical data see page 1 - 77



Other Pushb.

| → Contact arrangement | Contact function | Illumination            | Color of lens      | Order no.         |
|-----------------------|------------------|-------------------------|--------------------|-------------------|
| 1 NC + 1 NO           | momentary        | no                      | opaque red         | 1.15.106.301/0313 |
| 1 NC + 1 NO           | momentary        | no                      | opaque yellow      | 1.15.106.301/0410 |
| 1 NC + 1 NO           | momentary        | no                      | opaque green       | 1.15.106.301/0518 |
| 1 NC + 1 NO           | momentary        | no                      | opaque white       | 1.15.106.301/0214 |
| 1 NC + 1 NO           | momentary        | no                      | opaque black       | 1.15.106.301/0104 |
| 1 NC + 1 NO           | momentary        | LED super bright red    | transparent red    | 1.15.106.501/1300 |
| 1 NC + 1 NO           | momentary        | LED super bright yellow | transparent yellow | 1.15.106.503/1400 |
| 1 NC + 1 NO           | momentary        | LED super bright green  | transparent green  | 1.15.106.502/1500 |
| 1 NC + 1 NO           | momentary        | LED super bright blue   | transparent blue   | 1.15.106.504/1600 |
| 1 NC + 1 NO           | momentary        | LED superbright white   | transparent white  | 1.15.106.505/1000 |

Recommended values for external series resistor for LED

- 5 - 7 V = 270 Ω, 0.25 W
- 12 - 14 V = 680 Ω, 0.5 W
- 24 - 28 V = 1500 Ω, 1 W

LED forward current: max. 10 mA at T = 25° C

LED forward voltage: 2V at 10 mA

LED reverse voltage: 5 V

LED reverse current: 0,1 mA

LED power dissipation: max. 120 mW at T = 50° C

Contact arrangement: 1-2 = NC, 3-4 = NO, X1-X2 = LED. Please note: connect plus with the LED anode, which is marked with a color point.

# PUSHBUTTONS NON-ILLUMINATED 15.2 mm, 250 V / 0.7 A

## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Color of lens  | see order block |
| Form of collar | round           |

### → Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 19 mm   |
| Overall height     | 8.2 mm  |
| Mounting depth     | 21.5 mm |
| Mounting hole      | 15.2 mm |

### → Mechanical design

|                     |                 |
|---------------------|-----------------|
| Mounting            | ring nut        |
| Terminals           | see order block |
| Contact system      | bridge contact  |
| Contact function    | momentary       |
| Contact arrangement | see order block |
| Contact materials   | Ag              |
| Illumination        | no              |
| Lamp socket         | no              |

### → Mechanical characteristics

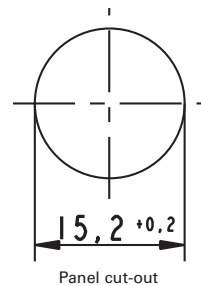
|                      |        |
|----------------------|--------|
| Operating force max. | 7.5 N  |
| Operating travel     | 3 mm   |
| Switching travel NC  | 1.2 mm |
| Switching travel NO  | 2.0 mm |
| Robustness max.      | 100 N  |

### → Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated current max.                   | 0.7 A  |
| Contact resistance when new max.     | 50 mΩ  |
| Contact resistance acc. to life max. | 300 mΩ |

### → Other specifications

|   |  |
|---|--|
| Operating life (operations)             | 25,000   |
| Degree of protection from front side    | IP40 acc. to DIN EN 60529<br>(IP65 with sealing cap) |
| Operation temperature min.              | -25 °C   |
| Ambient temp. operating max.            | +85 °C   |
| Storage temperature min.                | -40 °C   |
| Storage temperature max.                | +90 °C   |
| Environmental resistance                | acc. to IEC 60068-2-14, -30, -33 and -78             |
| Weight                                  | 7 g  |
| Flame class acc. to UL 94               | V 0  |
| Hot wire ignition acc. to IEC 60695-2-1 | yes  |
| ROHS compliant                          | yes  |
| REACH compliant                         | yes  |



## Approvals





ENEC 25T85

# PUSHBUTTONS

PUSHBUTTONS NON-ILLUMINATED - MOUNTING HOLE DIAMETER 15.2 MM

1

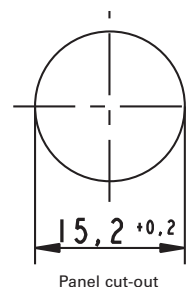
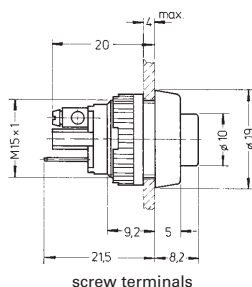
## Accessories Pushbutton non-illuminated - 15.2 mm, 250 V / 0.7 A

| → Description   | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Sealing cap, transparent, for protection acc. to IP65 |   | 5.52.008.115/0000 | -                               |
| Fixing spanner M 15, M 16                             |  | 5.58.002.019/0105 | 5 - 25                          |



## Pushbutton non-illuminated mounting hole diameter 15.2 mm

Technical data see page 1 - 79



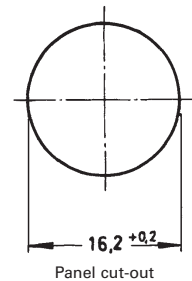
Other Pushb.

| → Contact arrangement | Contact function | Color of lens | Terminals                                     | Order no.         |
|-----------------------|------------------|---------------|---|-------------------|
| 1 NO                  | momentary        | opaque red    | screw terminals                               | 1.10.001.001/0301 |
| 1 NO                  | momentary        | opaque red    | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.011/0301 |
| 1 NO                  | momentary        | opaque green  | screw terminals                               | 1.10.001.001/0507 |
| 1 NO                  | momentary        | opaque green  | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.011/0507 |
| 1 NO                  | momentary        | opaque white  | screw terminals                               | 1.10.001.001/0205 |
| 1 NO                  | momentary        | opaque white  | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.011/0205 |
| 1 NO                  | momentary        | opaque black  | screw terminals                               | 1.10.001.001/0104 |
| 1 NO                  | momentary        | opaque black  | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.011/0104 |
| 1 NC                  | momentary        | opaque red    | screw terminals                               | 1.10.001.151/0301 |
| 1 NC                  | momentary        | opaque red    | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.161/0301 |
| 1 NC                  | momentary        | opaque black  | screw terminals                               | 1.10.001.151/0104 |
| 1 NC                  | momentary        | opaque black  | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | 1.10.001.161/0104 |

Quick-connector 6.3 x 0.8 mm. The connector is splitted and also usable for two connectors 2.8 x 0.8 mm.



# PUSHBUTTONS NON-ILLUMINATED 16.2 mm, 250 V / 2 A



## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Color of lens  | see order block |
| Form of collar | round           |

### → Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 20 mm   |
| Overall height     | 9 mm    |
| Mounting depth     | 41 mm   |
| Mounting hole      | 16.2 mm |

### → Mechanical design

|                     |                 |
|---------------------|-----------------|
| Mounting            | ring nut        |
| Terminals           | screw terminals |
| Contact system      | bridge contact  |
| Contact function    | momentary       |
| Contact arrangement | see order block |
| Contact materials   | Ag              |
| Illumination        | no              |
| Lamp socket         | no              |

### → Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 7.5 N  |
| Operating travel     | 4.3 mm |
| Switching travel NC  | 1.3 mm |
| Switching travel NO  | 2.2 mm |
| Robustness max.      | 100 N  |

### → Electrical characteristics

|                                  |        |
|----------------------------------|--------|
| Rated voltage AC max.            | 250 V  |
| Rated current max.               | 2 A    |
| Contact resistance when new max. | 100 mΩ |

### → Other specifications

|   |  |
|---|--|
| Operating life (operations)             | 150,000  |
| Degree of protection from front side    | IP40 acc. to DIN EN 60529<br>(IP65 with sealing cap) |
| Operation temperature min.              | -25 °C   |
| Ambient temp. operating max.            | +85 °C   |
| Storage temperature min.                | -40 °C   |
| Storage temperature max.                | +90 °C   |
| Environmental resistance                | acc. to IEC 60068-2-14, -30, -33 and -78             |
| Weight                                  | 11 g   |
| Flame class acc. to UL 94               | V 0  |
| Hot wire ignition acc. to IEC 60695-2-1 | yes  |
| ROHS compliant                          | yes  |
| REACH compliant                         | yes  |

## Approvals



1

Other  
Pushb.

## Accessories Pushbutton non-illuminated - 16.2 mm, 250 V / 2 A

| → Description                                   | Photo | Order no.         | Additional accessories see page |
|---|-------|-------------------|---------------------------------|
| Sealing cap, black, for protection acc. to IP65 |       | 5.52.008.101/0100 | -                               |




# PUSHBUTTONS

PUSHBUTTONS NON-ILLUMINATED - MOUNTING HOLE DIAMETER 16.2 MM

1

– Table (continued) –

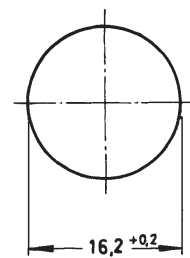
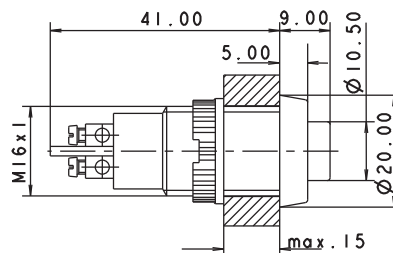
Accessories Pushbutton non-illuminated - 16.2 mm, 250 V / 2 A

| → Description                                 | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Sealing cap, red, for protection acc. to IP65 |  | 5.52.008.101/0300 | -                               |
| Protective sleeve for terminals               |   | 5.52.011.026/0100 | -                               |
| Protection against contact to VBG 4           |   | 5.55.101.715/0200 | 5 - 31                          |
| Fixing spanner M 15, M 16                     |  | 5.58.002.019/0105 | 5 - 25                          |



## Pushbutton non-illuminated mounting hole diameter 16.2 mm, 250 V / 2 A

Technical data see page 1 - 81



Panel cut-out

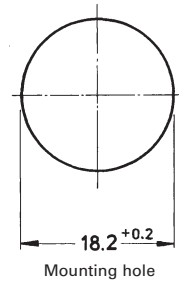
Other  
Pushb.

| → Contact arrangement | Contact function | Color of lens | Order no.         |
|-----------------------|------------------|---------------|-------------------|
| 1 NO                  | momentary        | opaque red    | 1.10.102.001/0301 |
| 1 NO                  | momentary        | opaque green  | 1.10.102.001/0507 |
| 1 NO                  | momentary        | opaque white  | 1.10.102.001/0205 |
| 1 NO                  | momentary        | opaque black  | 1.10.102.001/0104 |
| 1 NC                  | momentary        | opaque red    | 1.10.102.011/0301 |
| 1 NC                  | momentary        | opaque black  | 1.10.102.011/0104 |

# PUSHBUTTONS NON-ILLUMINATED 18.2 mm, 250 V / 2 A

## Technical Data

|   |  |
|---|--|
| <b>→ General information</b>            |  |
| Form of lens                            | protruding lens                                      |
| Color of lens                           | see order block                                      |
| Form of collar                          | round  |
| <b>→ Dimensions</b>                     |  |
| Diameter of collar                      | 22 mm  |
| Overall height                          | 10.5 mm  |
| Mounting depth                          | 34 mm  |
| Mounting hole                           | 18.2 mm  |
| <b>→ Mechanical design</b>              |  |
| Mounting                                | ring nut   |
| Terminals                               | see order block                                      |
| Contact system                          | sliding bridge contact                               |
| Contact function                        | momentary  |
| Contact arrangement                     | see order block                                      |
| Contact materials                       | Ag   |
| Illumination                            | no   |
| Lamp socket                             | no   |
| <b>→ Mechanical characteristics</b>     |  |
| Operating force max.                    | 9.5 N  |
| Operating travel                        | 5 mm   |
| Switching travel NC                     | 2.1 mm   |
| Switching travel NO                     | 3.7 mm   |
| Robustness max.                         | 100 N  |
| <b>→ Electrical characteristics</b>     |  |
| Rated voltage AC max.                   | 250 V  |
| Rated current max.                      | 2 A  |
| Contact resistance acc. to life max.    | 200 mΩ   |
| <b>→ Other specifications</b>           |  |
| Operating life (operations)             | 50,000   |
| Degree of protection from front side    | IP40 acc. to DIN EN 60529<br>(IP65 with sealing cap) |
| Operation temperature min.              | -25 °C   |
| Ambient temp. operating max.            | +85 °C   |
| Storage temperature min.                | -40 °C   |
| Storage temperature max.                | +90 °C   |
| Environmental resistance                | acc. to IEC 60068-2-14, -30, -33 and -78             |
| Weight                                  | 14 g   |
| Flame class acc. to UL 94               | V 0  |
| Hot wire ignition acc. to IEC 60695-2-1 | yes  |
| ROHS compliant                          | yes  |
| REACH compliant                         | yes  |



## Approvals



1

Other Pushb.

## Accessories Pushbutton non-illuminated - 18.2 mm, 250 V / 2 A

| → Description  | Photo | Order no.         | Additional accessories see page |
|--|-------|-------------------|---------------------------------|
| Neoprene sealing cap, black, for protection acc. to IP65 |       | 5.52.008.061/0100 | -                               |




# PUSHBUTTONS

PUSHBUTTONS NON-ILLUMINATED - MOUNTING HOLE DIAMETER 18.2 MM

1

– Table (continued) –

Accessories Pushbutton non-illuminated - 18.2 mm, 250 V / 2 A

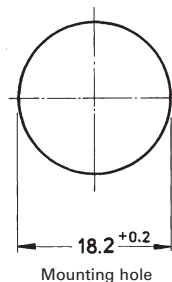
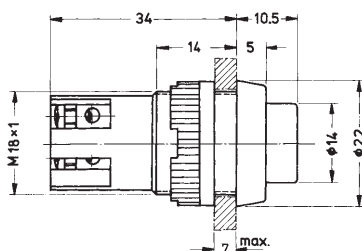
| → Description                                     | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| Silicone sealing cap, for protection acc. to IP65 |   | 5.52.008.065/0000 | -                               |
| Protective sleeve for terminals                   |   | 5.52.011.028/0100 | -                               |
| Fixing spanner M 18, M 19                         |  | 5.58.002.017/0105 | 5 - 25                          |

Other Pushb.



## Pushbutton non-illuminated mounting hole diameter 18.2 mm, 250 V / 2 A

Technical data see page 1 - 83



| → Contact arrangement | Color of lens | Order no.         |
|-----------------------|---------------|-------------------|
| 2 NO                  | opaque red    | 1.01.102.001/0301 |
| 2 NO                  | opaque green  | 1.01.102.001/0507 |
| 2 NO                  | opaque black  | 1.01.102.001/0104 |
| 1 NC + 1 NO           | opaque red    | 1.01.102.011/0301 |
| 1 NC + 1 NO           | opaque green  | 1.01.102.011/0507 |
| 1 NC + 1 NO           | opaque white  | 1.01.102.011/0205 |
| 1 NC + 1 NO           | opaque black  | 1.01.102.011/0104 |

# PUSHBUTTONS ILLUMINABLE 20.3 mm, 250 V / 2 A

## Technical Data

### → General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Color of lens  | see order block |
| Form of collar | round           |

### → Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 24 mm   |
| Overall height     | 9 mm    |
| Mounting depth     | 45.5 mm |
| Mounting hole      | 20.3 mm |

### → Mechanical design

|                     |  |
|---------------------|--|
| Mounting            | ring nut                                       |
| Terminals           | solder/quick connect terminals<br>2.8 x 0.8 mm |
| Contact system      | bridge contact                                 |
| Contact function    | momentary                                      |
| Contact arrangement | see order block                                |
| Contact materials   | Ag   |
| Illumination        | yes  |
| Lamp socket         | BA 9 s   |

### → Mechanical characteristics

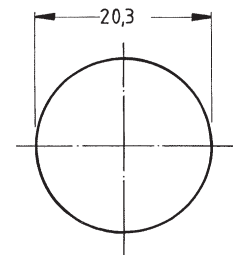
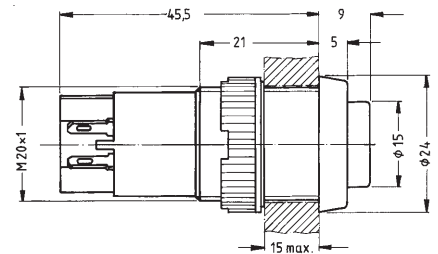
|                      |        |
|----------------------|--------|
| Operating force max. | 10 N   |
| Operating travel     | 3.6 mm |
| Switching travel NC  | 0.8 mm |
| Switching travel NO  | 2.9 mm |
| Robustness max.      | 100 N  |

### → Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated current max.                   | 2 A    |
| Contact resistance acc. to life max. | 200 mΩ |

### → Other specifications

|   |  |
|---|--|
| Operating life (operations)             | 100,000  |
| Degree of protection from front side    | IP40 acc. to DIN EN 60529<br>(IP65 with sealing cap) |
| Operation temperature min.              | -25 °C   |
| Ambient temp. operating max.            | +85 °C   |
| Storage temperature min.                | -40 °C   |
| Storage temperature max.                | +90 °C   |
| Environmental resistance                | acc. to IEC 60068-2-14, -30, -33 and -78             |
| Weight                                  | 18 g   |
| Flame class acc. to UL 94               | V 0  |
| Hot wire ignition acc. to IEC 60695-2-1 | yes  |
| ROHS compliant                          | yes  |
| REACH compliant                         | yes  |



Mounting hole

## Approvals










# PUSHBUTTONS

PUSHBUTTON ILLUMINABLE - MOUNTING HOLE DIAMETER 20.3 MM, BA9S

1

## Accessories Pushbutton illuminable - 20.3 mm, 250 V / 2 A

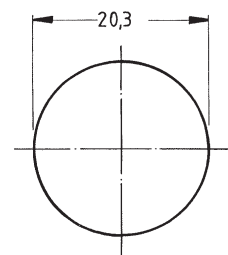
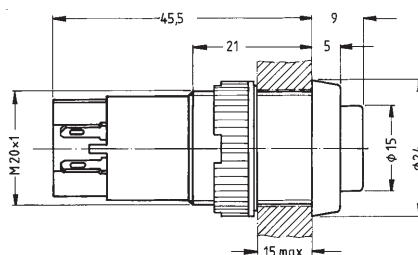
| → Description                                     | Photo  | Order no.         | Additional accessories see page |
|---|--|-------------------|---------------------------------|
| LED BA 9s (MBC/MCC) superbright, red, 24 V        |   | 1.90.690.341/0000 | 5 - 8                           |
| LED BA 9s (MBC/MCC) superbright, green, 24 V      |   | 1.90.690.342/0000 | 5 - 8                           |
| LED BA 9s (MBC/MCC) superbright, yellow, 24 V     |   | 1.90.690.343/0000 | 5 - 8                           |
| LED BA 9s (MBC/MCC) superbright, blue, 24 V       |   | 1.90.690.344/0000 | 5 - 8                           |
| LED BA 9s (MBC/MCC) superbright, white, 24 V      |   | 1.90.690.345/0000 | 5 - 8                           |
| Silicone sealing cap, for protection acc. to IP65 |   | 5.52.008.065/0000 | -                               |
| Protective sleeve for terminals                   |   | 5.52.011.030/0100 | -                               |
| Fixing spanner M 20, M 22, for ring nut           |  | 5.58.002.018/0105 | 5 - 25                          |

Other Pushb.



## Pushbutton with lamp socket BA9s (MBC/MCC), mounting hole diameter 20.3 mm, 250 V / 2 A

Technical data see page 1 - 85



Mounting hole

| → Contact arrangement | Contact function | Order no.         | Note   |
|-----------------------|------------------|-------------------|--|
| 1 NO                  | momentary        | 1.15.112.101/0000 | Please include the desired lens in your order. |
| 1 NC + 1 NO           | momentary        | 1.15.112.121/0000 | Please include the desired lens in your order. |

### Lenses:

Lens, transparent colorless: 5.49.205.008/1002  
 Lens, transparent red: 5.49.205.008/1303  
 Lens, transparent yellow: 5.49.205.008/1402  
 Lens, transparent green: 5.49.205.008/1502

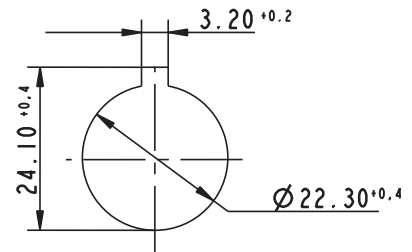
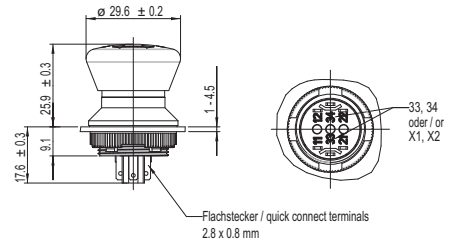
## LUMOTAST 22 E-STOP PUSH- BUTTONS, 22.3 MM

→ The emergency stop pushbuttons comply with IEC 60 204, IEC 60 073, IEC 60 947 and VDE 0113 Part 1. They are designed dupe-proof according to EN 418 with a positive mechanical movement sequence. A certain operating force must be exerted at the action point in order to prevent inadvertent operation. The pushbutton latches when pressed.

The special shape of the actuator prevents the emergency stop pushbutton from being blocked. This means that the emergency stop process - once initiated - cannot be impeded by any jamming objects.  
Original manual see „Appendix“



NEW



Panel cut-out to IEC 60947-5-1

### Technical Data

#### → General information

|                |                       |
|----------------|-----------------------|
| Form of lens   | conical mushroom form |
| Color of lens  | red                   |
| Form of collar | round                 |

#### → Dimensions

|                   |         |
|-------------------|---------|
| Mushroom Diameter | 30 mm   |
| Overall height    | 25.9 mm |
| Mounting depth    | 17.6 mm |
| Mounting hole     | 22.3 mm |

#### → Mechanical design

|                     |  |
|---------------------|--|
| Mounting            | ring nut                                 |
| Terminals           | quick connector 2.8 x 0.8 mm, solderable |
| Torque for nut ring | 1.9 Nm                                   |
| Contact function    | latching                                 |
| Contact arrangement | see order block                          |
| Illuminability      | see order block                          |
| Reset               | by rotation                              |

#### → Mechanical characteristics

|                 |       |
|-----------------|-------|
| Robustness max. | 100 N |
|-----------------|-------|

#### → Electrical characteristics acc. to IEC/EN 60947-5-1 (VDE 0660 Part 200)

|                                |                  |
|--------------------------------|------------------|
| Application category           | AC15/DC13        |
| Rated insulation voltage $U_i$ | 250V (AC/DC)     |
| Rated operating voltage $U_e$  | 250V AC, 240V DC |
| {Term. Dauerstrom}             | 2.5A (AC/DC)     |

#### → Other specifications

|                                      |  |
|--------------------------------------|--|
| Ambient temp. operating min.         | -25 °C                                   |
| Ambient temp. operating max.         | +70 °C                                   |
| Robustness                           | acc. to IEC 600 68-2-3 und 2-30          |
| Operating life (operations) / B10    | 15,000                                   |
| Degree of protection from front side | IP65 (DIN EN 60529)                      |
| Storage temperature min.             | -40 °C                                   |
| Storage temperature max.             | +80 °C                                   |
| Environmental resistance             | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Salt spray                           | IEC 600 68-2-11                          |
| Solder techniques                    | manual soldering, lead-free              |
| Soldering temperature max.           | 350 °C                                   |
| Soldering time max.                  | 5 s                                      |
| ROHS compliant                       | yes                                      |
| REACH compliant                      | yes                                      |

### Approvals



# PUSHBUTTONS

LUMOTAST 22 - E-STOP, MOUNTING HOLE DIAMETER 22.3 MM

1

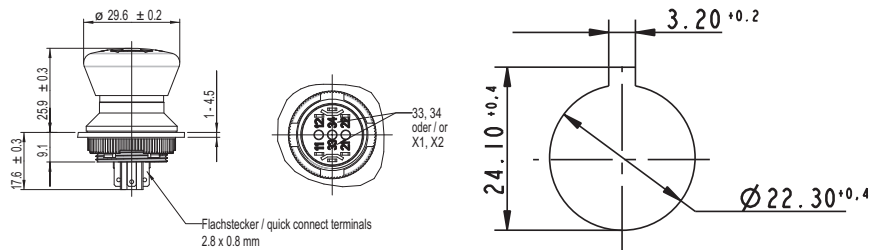
## Accessories LUMOTAST 22 E-Stop, 22.3 mm

| → Description               | Photo  | Order no.         | Additional accessories see page |
|-----------------------------|--|-------------------|---------------------------------|
| Fixing spanner for ring nut |  | 5.05.800.062/0000 | 2 - 145, 2 - 261, 5 - 25        |



## LUMOTAST 22 E-Stop

Technical data see page 1 - 87



Panel cut-out to IEC 60947-5-1

Other Pushb.

| → Contact arrangement | Illuminability    | Degree of protection from front side | Order no.         |
|-----------------------|-------------------|--------------------------------------|-------------------|
| 2 NC + 1 NO           | no                | IP65 (DIN EN 60529)                  | 1.15.105.021/0000 |
| 2 NC                  | arrows with 2 LED | IP65 (DIN EN 60529)                  | 1.15.105.011/0000 |
| 2 NC                  | no                | IP65 (DIN EN 60529)                  | 1.15.105.001/0000 |



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