GET IN
TOUCH

# LUMOTAST 16

Flat. Reliable. Flexible.

**RAFI**

# A CLEAR SIGNAL

## LUMOTAST 16 – FLAT. RELIABLE. FLEXIBLE.

Space for pushbuttons and switches is limited on many devices – especially when they must be both handy and user-friendly. This has previously led to compromises in this area – in terms of the design or quality. That's why we developed the LUMOTAST 16.

The new single pushbutton series, consisting of a pushbutton and emergency stop, is designed primarily for use in applications such as equipment manufacturing and hand-held terminals. This space-saving component family is equally impressive at the front and at the rear.

### PUSHBUTTONS

The built-in tactile switches offer crisp feedback. Special, first-class switching behavior is achieved, combined with full area illumination. Our illuminated pushbuttons can be labeled to suit any application by the manufacturer or customer.
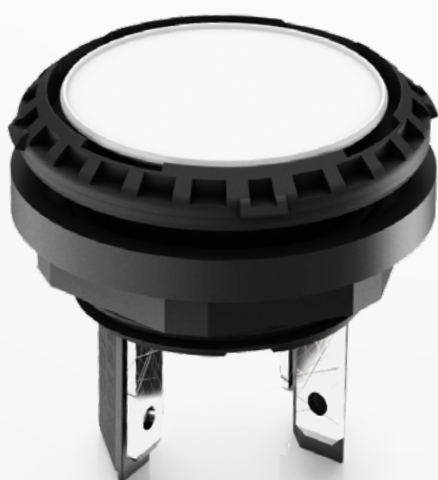
### EMERGENCY STOP

The LUMOTAST 16 emergency stop variant reliably brings machines and equipment to a standstill. With its attractive design, the LUMOTAST 16 is a real eye-catcher.

For hand-held devices, the trend is towards wireless solutions with a radio connection to the machine. The emergency stop buttons used here must offer special functions, such as our special "active/inactive" emergency stop variant – an innovation with a signaling effect. Precisely matched to the applicable safety standards, this special emergency stop not only increases safety, but also convenience. Our "active/inactive" variant only switches if the device is connected to the machine. To avoid confusion, the translucent special variant lights up red when active. The hard-wired emergency stop on the machine or system is not affected by this.

### YOUR BENEFITS AT A GLANCE:

➜ Product range with a wide variety of possible applications and uses in industry
➜ Standardized mounting hole diameter 16.2 mm
➜ Mounting depth just 18.0 mm
➜ Very compact, flat design – from the front
➜ Flexible and simple labeling options
➜ Pushbuttons with crisp feel
➜ Degree of protection IP 65 and IP 67
➜ Dupe-proof and illuminated emergency stop switches to IEC 60 947-5-5

### LUMOTAST 16 PRODUCT PORTFOLIO:

➜ C-LAB pushbutton and C-LAB illuminated pushbutton with customized labeling
➜ Illuminated pushbutton
➜ Pushbutton
➜ Emergency stop
➜ "active/inactive" emergency stop

# LUMOTAST 16
## C-LAB

→ LUMOTAST 16 C-LAB pushbuttons or illuminated pushbuttons can be configured easily by the customer. This means various front ring colors can be combined with the bezels according to the user's own wishes or design preferences. It also means that customized label symbols or texts can be implemented.

Ø**23.5**

18.00

1.0...5.0

4.6

22.3

**M16x1**

1.7+0.2

R0.8max.

16.2+0.2

17.9+0.2

c**ᴙU**us
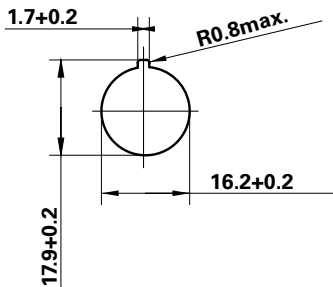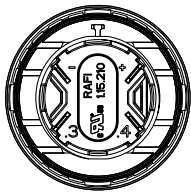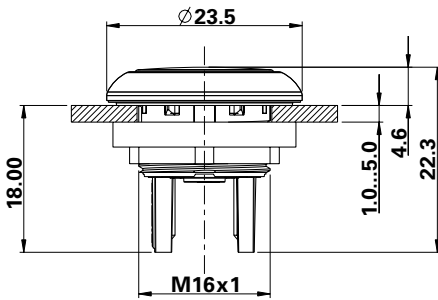
| → | **General** | |
|---|---|---|
| | Model designation | Pushbutton; C-LAB illuminated pushbutton |
| | Collar shape | round |
| | Front ring color | see order pad |
| → | **Mounting dimensions** | |
| | Collar dimension | 23.5 mm |
| | Overall height | 22.3 mm |
| | Mounting depth | 18.0 mm |
| | Mounting hole | 16.2 mm |
| | Key grid | 25 x 25 mm |
| → | **Technical data** | |
| | Fixing | Threaded ring |
| | Torque for threaded ring | max. 0.8 Nm |
| | Terminal on the rear | Male quick-connect terminal 2.8 x 0.5 mm |
| | Contact material | Gold |
| → | **Electrical data** | |
| | Contact configuration | 1 NO |
| | Rated voltage, min. | 0.02 V |
| | Rated voltage, max. | 35 V |
| | Max. rated voltage as per UL 60 947 | 30 V AC (42.4 V peak) |
| | Rated current, min. | 0.01 mA |
| | Rated current, max. | 100 mA |
| | Rated power, max. | 1 W |
| → | **LED electrical data** | |
| | LED operating voltage, min. | 10 V DC |
| | LED operating voltage, max. | 32 V DC |
| | LED operating current, min. | 18 mA |
| | LED operating current, max. | 22 mA |
| | LED terminal marking | Anode +, Cathode - |
| → | **Other details** | |
| | Operating temperature | -25°C to +70°C |
| | Storage temperature | -40°C to +80°C |
| | Operating life (switching operations) | 500,000 |
| | B10 | 600,000 |
| | Degree of protection, front side | IP65; IP67 |
| | ROHS compliant | Yes |
| | REACH compliant | Yes |

# C-LAB, ASSEMBLY INSTRUCTIONS

ASSEMBLY WITH TRANSPARENT BEZEL



Legend insert only for insertion adapters with locking surface.

C-LAB    Insertion adapter

**1**

Transparent bezel

**2**

*

**3**

Front ring

**4**

✓

**5**
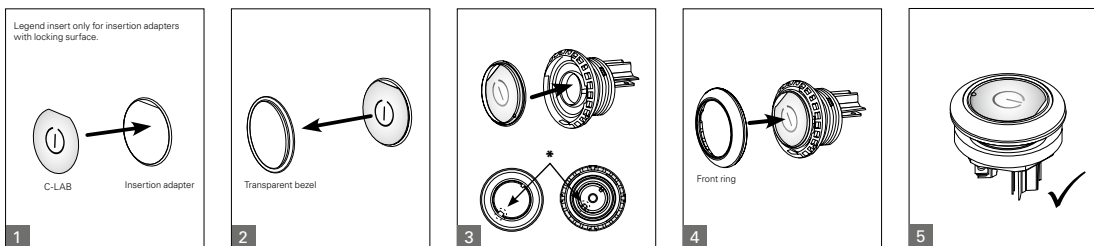
ASSEMBLY WITH OPAQUE BEZEL

Insertion adapter

Opaque keycap

**1**

*

**2**

**3**

✓

**4**

**\*** Pay attention when inserting the assembly into the housing. There are two locating pips of different sizes on the insertion adapter. These must be aligned with the recesses in the housing (seal).
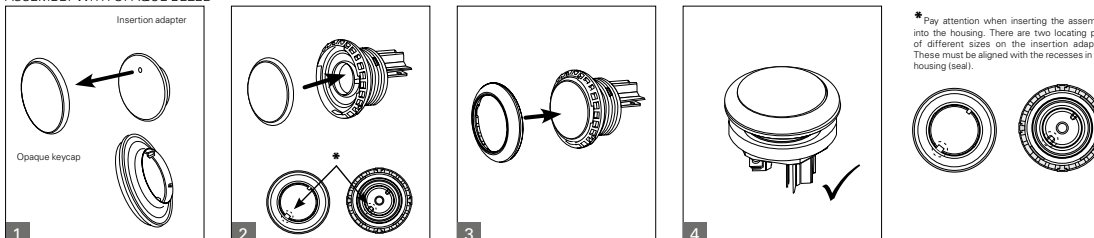
# LUMOTAST 16, C-LAB


Basic version with insertion adapter


Legend insert


Bezel, transparent

→ **LUMOTAST 16 pushbutton C-LAB**

|  | Color | Order no. |
|---|---|---|
| C-LAB pushbutton, basic version | - | 1.15.210.900/0000 |
| C-LAB bezel | opaque black | 5.00.888.504/0100 |
| C-LAB bezel | opaque white | 5.00.888.504/0200 |
| C-LAB bezel | opaque red | 5.00.888.504/0300 |
| C-LAB bezel | opaque yellow | 5.00.888.504/0400 |
| C-LAB bezel | opaque green | 5.00.888.504/0500 |
| C-LAB bezel | opaque blue | 5.00.888.504/0600 |

Please always order basic version, bezel and front ring. Delivery in single parts.

→ **LUMOTAST 16 C-LAB illuminated pushbutton**

|  | Color | Order no. |
|---|---|---|
| C-LAB illuminated pushbutton, basic version | - | 1.15.210.910/0000 |
| C-LAB bezel | translucent white | 5.00.888.505/2200 |
| C-LAB bezel | translucent red | 5.00.888.505/2300 |
| C-LAB bezel | translucent yellow | 5.00.888.505/2400 |
| C-LAB bezel | translucent green | 5.00.888.505/2500 |
| C-LAB bezel | translucent blue | 5.00.888.505/2600 |

Please always order basic version, bezel and front ring. Delivery in single parts.

→ **LUMOTAST 16 C-LAB illuminated pushbutton, inscribable**

|  | Color | Order no. |
|---|---|---|
| C-LAB illuminated pushbutton, inscribable, basic version | - | 1.15.210.920/0000 |
| C-LAB bezel | transparent white | 5.00.888.506/1000 |
| C-LAB bezel | transparent red | 5.00.888.506/1300 |
| C-LAB bezel | transparent yellow | 5.00.888.506/1400 |
| C-LAB bezel | transparent green | 5.00.888.506/1500 |
| C-LAB bezel | transparent blue | 5.00.888.506/1600 |
| Labeling sheet DIN A4, with 7x9 legend insert, unlabeled for self-printing |  | 5.70.800.203/0000 |

Please always order basic version, bezel and front ring. Delivery in single parts.
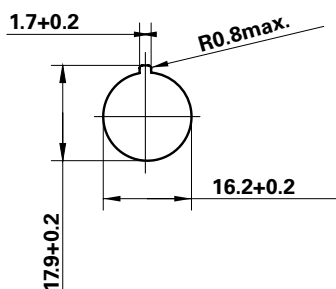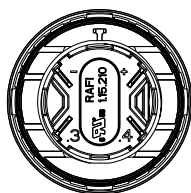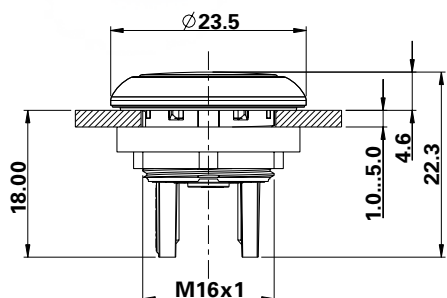


→ **Front rings**

| Front ring | Order no. |
|---|---|
| black | 5.00.888.510/0100 |
| red | 5.00.888.510/0300 |
| yellow | 5.00.888.510/0400 |
| green | 5.00.888.510/0500 |
| blue | 5.00.888.510/0600 |
| metallized | 5.00.888.510/8100 |

# LUMOTAST 16
## PUSHBUTTON, ILLUMINATED PUSHBUTTON

→ Through the use of RAFI tactile switches, the LUMOTAST 16 pushbuttons and illuminated pushbuttons offer crisp, tactile feedback – with a distinct key click. They offer an impressively wide range of possible industrial uses and applications.

| → **General** | |
|---|---|
| Model designation | Pushbutton, illuminated pushbutton |
| Collar shape | round |
| Front ring color | black/metallized |
| → **Mounting dimensions** | |
| Collar dimension | 23.5 mm |
| Overall height | 22.3 mm |
| Mounting depth | 18.0 mm |
| Mounting hole | 16.2 mm |
| Key grid | 25 x 25 mm |
| → **Technical data** | |
| Fixing | Threaded ring |
| Torque for threaded ring | max. 0.8 Nm |
| Terminal on the rear | Male quick-connect terminal 2.8 x 0.5 mm |
| Contact material | Gold |
| → **Electrical data** | |
| Contact configuration | 1 NO |
| Rated voltage, min. | 0.02 V |
| Rated voltage, max. | 35 V |
| Rated current, min. | 0.01 mA |
| Rated current, max. | 100 mA |
| Max. rated voltage as per UL 60 947 | 30 V AC (42.4 V peak) |
| Rated power, max. | 1 W |
| → **LED electrical data** | |
| LED operating voltage, min. | 10 V DC |
| LED operating voltage, max. | 32 V DC |
| LED operating current, min. | 18 mA |
| LED operating current, max. | 22 mA |
| LED terminal marking | Anode +, Cathode - |
| → **Other details** | |
| Operating temperature | -25°C to +70°C |
| Storage temperature | -40°C to +80°C |
| Operating life (switching operations) | 500,000 |
| B10 | 600,000 |
| Degree of protection, front side | IP65; IP67 |
| ROHS compliant | Yes |
| REACH compliant | Yes |

→ **LUMOTAST 16 pushbutton**

| | Color | Order no. Front ring, black | Order no. Front ring, metallized |
|---|---|---|---|
| Pushbutton | opaque black | 1.15.210.001/0101 | 1.15.210.021/0100 |
| Pushbutton | opaque white | 1.15.210.001/0201 | 1.15.210.021/0200 |
| Pushbutton | opaque red | 1.15.210.001/0301 | 1.15.210.021/0300 |
| Pushbutton | opaque yellow | 1.15.210.001/0401 | 1.15.210.021/0400 |
| Pushbutton | opaque green | 1.15.210.001/0501 | 1.15.210.021/0500 |
| Pushbutton | opaque blue | 1.15.210.001/0601 | 1.15.210.021/0600 |

→ **LUMOTAST 16 illuminated pushbutton**

| | Color | Order no. Front ring, black | Order no. Front ring, metallized |
|---|---|---|---|
| Illuminated pushbutton | translucent white | 1.15.210.101/2201 | 1.15.210.121/2200 |
| Illuminated pushbutton | translucent red | 1.15.210.101/2301 | 1.15.210.121/2300 |
| Illuminated pushbutton | translucent yellow | 1.15.210.101/2401 | 1.15.210.121/2400 |
| Illuminated pushbutton | translucent green | 1.15.210.101/2501 | 1.15.210.121/2500 |
| Illuminated pushbutton | translucent blue | 1.15.210.101/2601 | 1.15.210.121/2600 |

# LUMOTAST 16
## EMERGENCY STOP
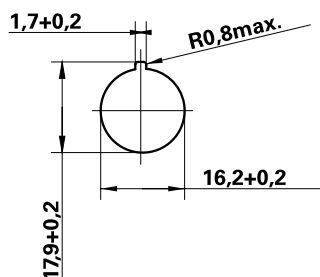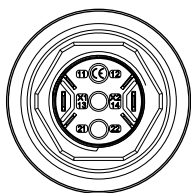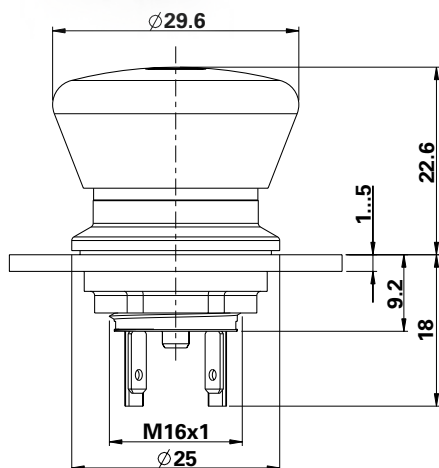
→ The LUMOTAST 16 emergency stop elements are equipped with up to 3 contacts. This means that, for example, 2 redundant contacts can be earmarked for safety applications, while a signaling contact triggers the position sensing. An additional safety factor for your application. We offer you a further variant with the "active/inactive" emergency stop.

### → General

| | |
|---|---|
| Series | LUMOTAST 16 |
| Model designation | Emergency stop |
| Collar shape | round |
| Color | yellow – red / yellow – translucent |

### → Mounting dimensions

| | |
|---|---|
| Collar dimension | 25.0 mm |
| Overall height | 40.8 mm |
| Mounting depth | 18.0 mm |
| Mounting hole | 16.2 mm |
| Key grid | 30 x 30 mm |

### → Technical data

| | |
|---|---|
| Fixing | Threaded ring |
| Torque for threaded ring | max. 1.5 Nm |
| Terminal on the rear | Male quick-connect terminal 2.8 x 0.5 mm |
| Contact material | Gold or silver |

### → Gold contacts, electrical data

| | |
|---|---|
| Contact configuration | see order block |
| Rated voltage, min. | 0.02 V |
| Rated voltage, max. | 35 V |
| Rated current, min. | 1 mA |
| Rated current, max. | 100 mA |
| Rated power, max. | 0.5 W |

### → Silver contacts, electrical data

| | |
|---|---|
| Contact configuration | see order block |
| Rated voltage, min. | 10 V |
| Rated voltage, max. | 35 V |
| Rated current, min. | 15 mA |
| Rated current, max. | 6 A |
| Rated power, max. | 250 W |

### → LED electrical data

| | |
|---|---|
| LED operating voltage, min. | 18 V |
| LED operating voltage, max. | 28 V |
| LED operating current, min. | 8 mA |
| LED operating current, max. | 18 mA |

### → Other details

| | |
|---|---|
| Operating temperature | -25°C to +70°C |
| Storage temperature | -40°C to +80°C |
| Operating life (switching operations) | 30,000 |
| Degree of protection, front side | IP65; IP67 |
| B10 | 30,000 |

### → LUMOTAST 16 Emergency stop

| Contact configuration | Illumination | Order no. (Gold) | Order no. (Silver) |
|---|---|---|---|
| Emergency stop, 1 NC | No | 1.15.213.011 /0000 | 1.15.213.001 /0000 |
| Emergency stop, 2 NC | No | 1.15.213.012 /0000 | 1.15.213.002 /0000 |
| Emergency stop, 2 NC + 1 NO | No | 1.15.213.013 /0000 | 1.15.213.003 /0000 |
| Emergency stop, 2 NC | illuminated arrows | 1.15.213.014 /0000 | 1.15.213.004 /0000 |

### → "active/inactive" emergency stop

| | Order no. (Gold) | Order no. (Silver) |
|---|---|---|
| "active/inactive" emergency stop, 2 NC | 1.15.213.064/0000 | 1.15.213.054/0000 |

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**RAFI**

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