General data

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
• Solder terminals for the following wire cross-sections:
- Installed 0.5 mm² max.
- Factory terminated 0.35 mm² max.
• 250 V/4 A max.
• 2 NC + 2 NO max. (3 NC + 3 NO on request)

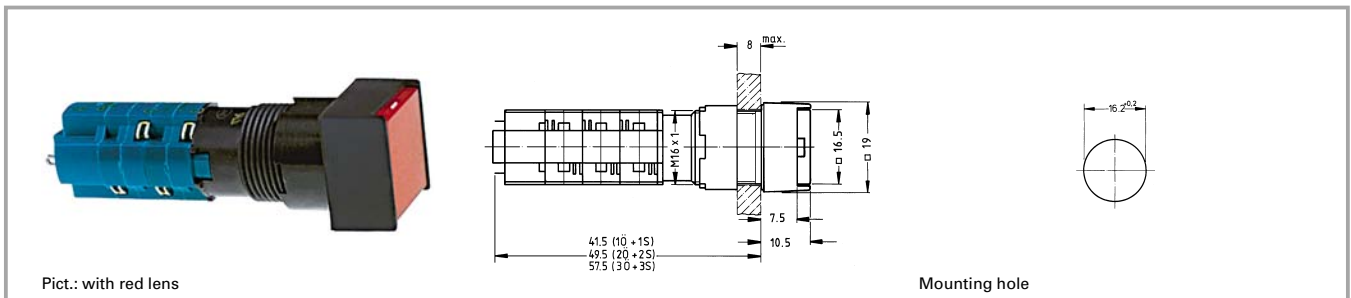## Content

1

LUMOTAST 75 illuminated pushbutton IP65

Pict.: with red lens

Mounting hole

**LUMO
75 (65)**

Technical data

General information
Form of lens	see order block
Colour of lens	see order block
Form of collar	see order block
Colour 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
Illuminability	yes
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 min.	100 N

Electrical characteristics
Rated voltage AC max.	250 V
Rated voltage DC max.	220 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)	200000 (momentary), 50000 (latching)
Operating life, at 250 V/4 A (operations)	60000 (momentary)
Degree of protection from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating without lamp max.	+70 °C
Ambient temp. operating with lamp max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according to IEC 600 68-2-14 and 2-33
Weight	15 g
Approvals	ENEC 25 T 55 (70), UL, CSA
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

Accessories LUMOTAST 75 illuminated pushbutton IP65

Description	Photo	Order no.	Page
Filament lamp, T 4.5 base, 12 V		**1.90.100.022/0000**	5 - 6
Filament lamp, T 4.5 base, 24 V		**1.90.100.023/0000**	5 - 6

Stock items are marked
by **bold printed** order numbers.

Accessories LUMOTAST 75 illuminated pushbutton IP65

Description	Photo	Order no.	Page
LED T 4.5 superbright, red, 24 V		**1.90.690.331/0000**	5 - 18
LED T 4.5 superbright, green, 24 V		**1.90.690.332/0000**	5 - 18
LED T 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 18
LED T 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 18
LED T 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 18
LED T 4.5, red, 2-3 V		**1.90.692.001/0000**	5 - 18
LED T 4.5, green, 2-3 V		**1.90.692.002/0000**	5 - 18
LED T 4.5, yellow, 2-3 V		**1.90.692.003/0000**	5 - 18
Lamp extractor for T 4.5/5.5, lamp diameter 4 mm		**1.90.900.002/0000**	5 - 22
Lamp extractor for lamp diameter 5-6 mm		**1.90.900.004/0000**	5 - 22
Protective cap (for 18 x 24 collar)		5.05.800.027/0000	5 - 26
Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm		**5.52.006.020/0103**	5 - 28
Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm		**5.52.006.021/0100**	5 - 28
Blanking cap, black, to cover spare holes, round 18 mm		**5.52.006.022/0100**	5 - 28
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23

1

**LUMO
75 (65)**
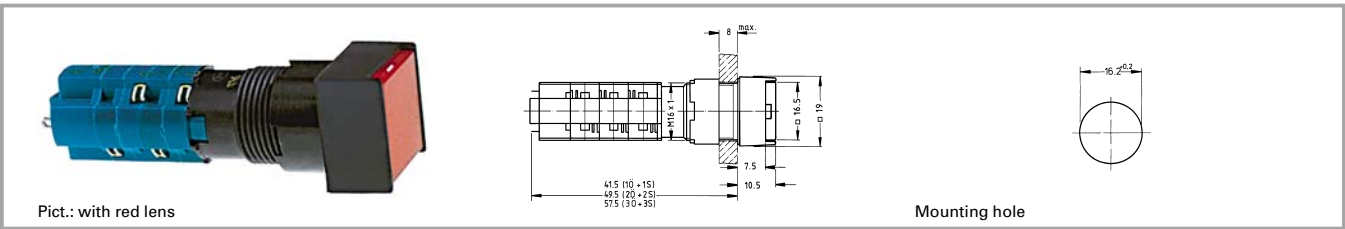
Stock items are marked
by **bold printed** order numbers.

1

LUMOTAST 75 illuminated pushbutton IP65, flush lens, square collar

Pict.: with red lens

Mounting hole

LUMO 75 (65)

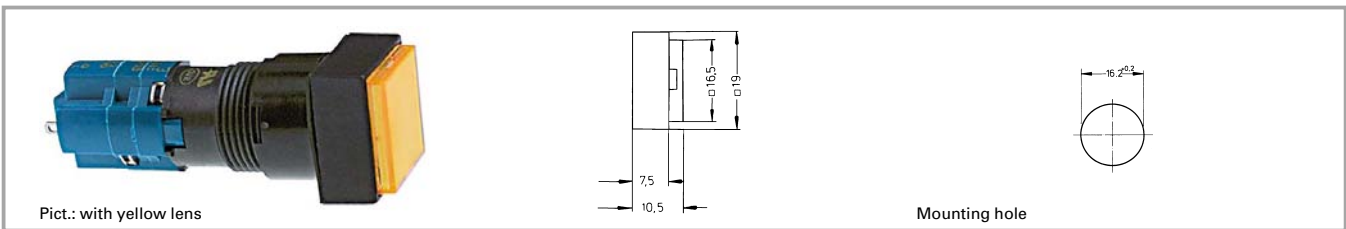| Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.276/0000**	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	1.15.108.376/0000	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black	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.

Technical data see page 1 - 54

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**
Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**
Lens, square, transparent green, for LED: **5.49.277.052/1503**
Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

Accessories:
Legend insert, square, without legend: **5.70.629.000/2000**

Stock items are marked
by **bold printed** order numbers.

LUMOTAST 75 illuminated pushbutton IP65, protruding lens, square collar

Pict.: with yellow lens   Mounting hole

Contact arrangement	Contact function	Colour of collar	Order no. without lens	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.

Technical data see page 1 - 54

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**
Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**
Lens, square, transparent green, for LED: **5.49.277.052/1503**
Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

Accessories:
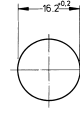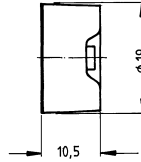Legend insert, square, without legend: **5.70.629.000/2000**

LUMO 75 (65)

1

LUMOTAST 75 illuminated pushbutton IP65, flush lens, round collar

Pict.: with blue lens

Ø 19

10,5

16,2

Mounting hole

Contact arrangement	Contact function	Colour of collar	Order no. without lens	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)

Technical data see page 1 - 54

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**
Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**
Lens, round, transparent green, for LED: **5.49.259.013/1503**
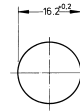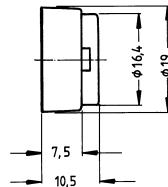Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

Accessories:
Legend insert, round, without legend: **5.70.059.000/2000**

Stock items are marked
by **bold printed** order numbers.

RAFI
SOLUTIONS WITH PASSION

LUMOTAST 75 illuminated pushbutton IP65, protruding lens, round collar

Pict.: with colourless lens

Mounting hole

Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	1.15.108.476/0000	Please include the desired lens in your order.
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.

Technical data see page 1 - 54

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**
Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**
Lens, round, transparent green, for LED: **5.49.259.013/1503**
Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

Accessories:
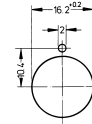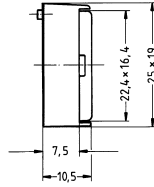Legend insert, round, without legend: **5.70.059.000/2000**

LUMO 75 (65)

1

LUMOTAST 75 illuminated pushbutton IP65, flush lens, rectangular collar

Pict.: with green lens, without threaded ring

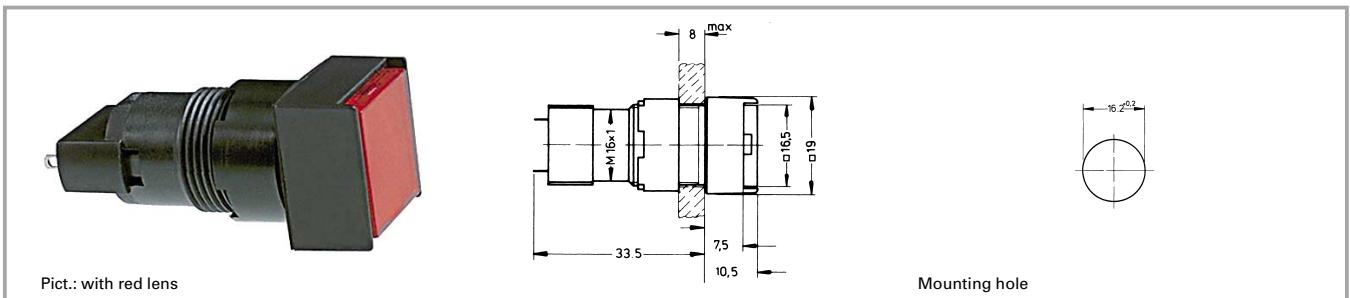| Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.076/0000**	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	1.15.108.176/0000	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black	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.

LUMO 75 (65)

Technical data see page 1 - 54

Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.277.058/1002**
Lens, rectangular, transparent red, for LED: **5.49.277.058/1301**
Lens, rectangular, transparent red, for filament lamp: **5.49.277.058/1303**
Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.277.058/1402**
Lens, rectangular, transparent green, for filament lamp: **5.49.277.058/1502**
Lens, rectangular, transparent green, for LED: **5.49.277.058/1503**
Lens, rectangular, transparent blue, for filament lamp: **5.49.277.058/1601**

Accessories:
Legend insert, rectangular without legend: **5.70.630.000/2000**

LUMOTAST 75 IP65

SOLUTIONS WITH PASSION

LUMOTAST 75 signal lamp IP65

Pict.: with red lens

Mounting hole

Technical data

General information
Form of lens	see order block
Form of collar	see order block
Diameter of collar	see order block

Dimensions
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

Mechanical design
Mounting	ring nut
Terminals	solder terminals
Lamp socket	T 4.5
Lamp	filament lamp / LED

Electrical characteristics
Voltage limit max.	42 V
Power limit max.	1.2 W

Other specifications
Degree of protection from front side	IP65
Weight	5 g
Approvals	ENEC 25 T 55 (70), UL, CSA
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C

Accessories LUMOTAST 75 signal lamp IP65

Description	Photo	Order no.	Page
Filament lamp, T 4.5 base, 12 V		**1.90.100.022/0000**	5 - 6
Filament lamp, T 4.5 base, 24 V		**1.90.100.023/0000**	5 - 6
LED T 4.5 superbright, red, 24 V		**1.90.690.331/0000**	5 - 18
LED T 4.5 superbright, green, 24 V		**1.90.690.332/0000**	5 - 18
LED T 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 18
LED T 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 18
LED T 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 18
LED T 4.5, red, 2-3 V		**1.90.692.001/0000**	5 - 18

LUMO 75 (65)

Stock items are marked by **bold printed** order numbers.

RAFI
SOLUTIONS WITH PASSION

1

Accessories LUMOTAST 75 signal lamp IP65

Description	Photo	Order no.	Page
LED T 4.5, yellow, 2-3 V		**1.90.692.003/0000**	5 - 18
Lamp extractor for T 4.5/5.5, lamp diameter 4 mm		**1.90.900.002/0000**	5 - 22
Lamp extractor for lamp diameter 5-6 mm		**1.90.900.004/0000**	5 - 22
Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm		5.52.006.020/0103	5 - 28
Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm		5.52.006.021/0100	5 - 28
Blanking cap, black, to cover spare holes, round 18 mm		5.52.006.022/0100	5 - 28
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23

LUMO
75 (65)

LUMOTAST 75 signal lamp IP65, flush lens, square collar
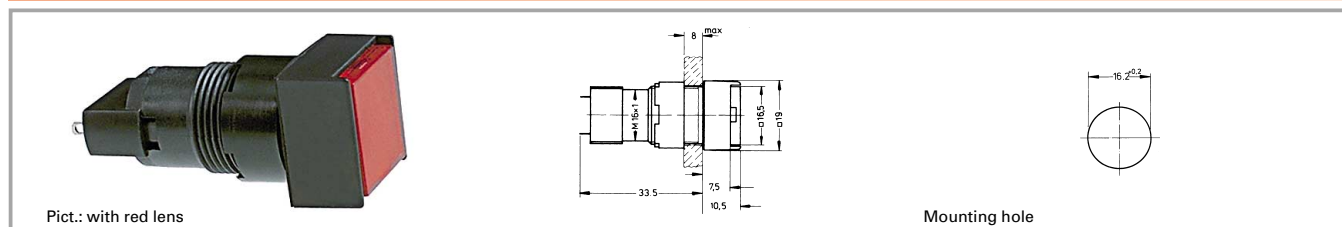
Pict.: with red lens

Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
42 V	1.2 W	T 4.5	square	**1.65.111.066/0000**	Please include the desired lens in your order.

Technical data see page 1 - 62

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**
Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**
Lens, square, transparent green, for LED: **5.49.277.052/1503**
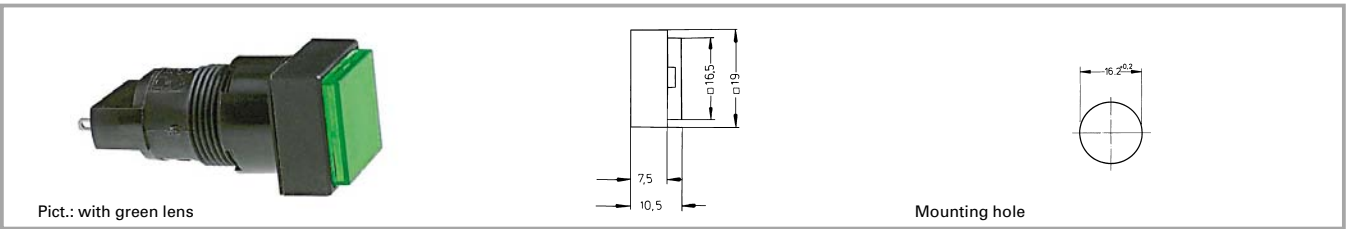Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

Accessories:
Legend insert, square: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

1

LUMOTAST 75 signal lamp IP65, protruding lens, square collar

Pict.: with green lens

Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
42 V	1.2 W	T 4.5	square	1.65.111.086/0000	Please include the desired lens in your order.

Technical data see page 1 - 62

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**
Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**
Lens, square, transparent green, for LED: **5.49.277.052/1503**
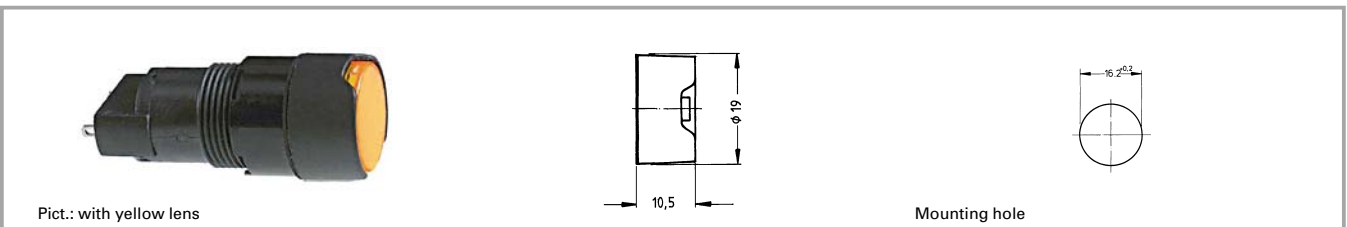Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

Accessories:
Legend insert, round, without legend: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

LUMO 75 (65)

LUMOTAST 75 signal lamp IP65, flush lens, round collar

Pict.: with yellow lens

Mounting hole

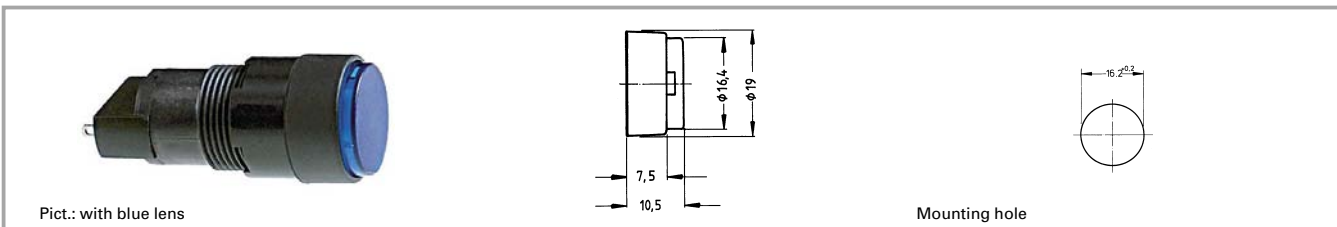| Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
42 V	1.2 W	T 4.5	round	1.65.111.096/0000	Please include the desired lens in your order.

Technical data see page 1 - 62

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**
Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**
Lens, round, transparent green, for LED: **5.49.259.013/1503**
Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

Accessories:
Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

1

LUMOTAST 75 signal lamp IP65, protruding lens, round collar

Pict.: with blue lens

φ16,4 φ19 7,5 10,5 16,2 Mounting hole

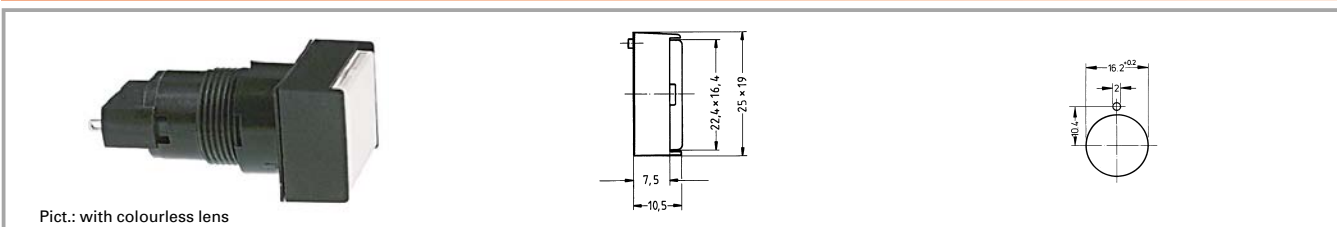| Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
42 V	1.2 W	T 4.5	round	**1.65.111.076/0000**	Please include the desired lens in your order.

Technical data see page 1 - 62

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**
Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**
Lens, round, transparent green, for LED: **5.49.259.013/1503**
Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

Accessories:
Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

LUMO 75 (65)

LUMOTAST 75 signal lamp IP65, flush lens, rectangular collar

Pict.: with colourless lens

22,4 × 16,4 25 × 19 7,5 10,5 16,2 2 10,4

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
42 V	1.2 W	T 4.5	rectangular	1.65.111.056/0000	Please include the desired lens in your order.

Technical data see page 1 - 62

Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.277.058/1002**
Lens, rectangular, transparent red, for LED: **5.49.277.058/1301**
Lens, rectangular, transparent red, for filament lamp: **5.49.277.058/1303**
Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.277.058/1402**
Lens, rectangular, transparent green, for filament lamp: **5.49.277.058/1502**
Lens, rectangular, transparent green, for LED: **5.49.277.058/1503**
Lens, rectangular, transparent blue, for filament lamp: **5.49.277.058/1601**

Accessories:
Legend insert, rectangular without legend: **5.70.630.000/2000**

For assembly, press the lens as far as possible.

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