LUMOTAST 75 IP65

RAFI
SOLUTIONS WITH PASSION

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.
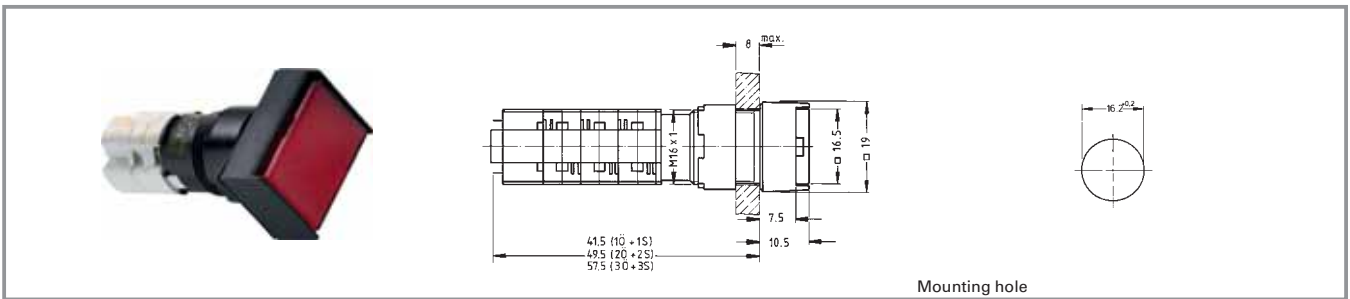• 2 NC + 2 NO max. (3 NC + 3 NO on request)

Content

LUMOTAST 75 IP65 - Illuminated pushbutton

Mounting hole

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
Illumination	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)	200,000 (momentary), 50,000 (latching)
Operating life, at 250 V/4 A (operations)	60,000 (momentary)
Degree of protection from front side	IP65
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
Storage temperature max.	+80 °C
Environmental restistance	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

Approvals

UL 508   C22.2 No. 14-M91

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Typical accessories LUMOTAST 75 IP65 - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see 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 - 16
LED T 4.5 superbright, green, 24 V		**1.90.690.332/0000**	5 - 16
LED T 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 16
LED T 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 16
LED T 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 16
LED T 4.5, red, 2-3 V (use external resistor)		**1.90.692.001/0000**	5 - 16
LED T 4.5, green, 2-3 V (use external resistor)		**1.90.692.002/0000**	5 - 16
LED T 4.5, yellow, 2-3 V (use external resistor)		**1.90.692.003/0000**	5 - 16
Lamp extractor for lamp diameter 4 mm		**1.90.900.002/0000**	5 - 5, 5 - 6, 5 - 20
Lamp extractor for lamp diameter 5-6 mm		**1.90.900.004/0000**	5 - 16, 5 - 20
Protective cap (for 18 x 24 collar)		5.05.800.027/0000	5 - 24
Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm		5.52.006.020/0103	5 - 26
Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm		5.52.006.021/0100	5 - 26
Blanking cap, black, to cover spare holes, round 18 mm		5.52.006.022/0100	5 - 26
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

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LUMO 75 (65)

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

1

LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, square collar
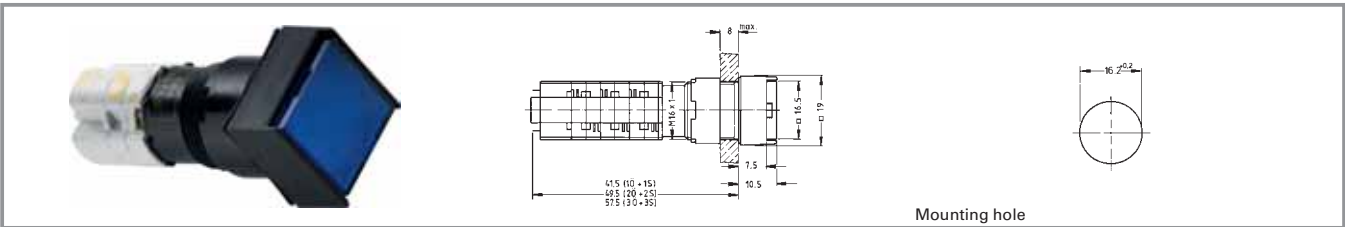
Mounting hole

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.

LUMO 75 (65)

Technical data see page 1 - 52

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**

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

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

RAFI
SOLUTIONS WITH PASSION

1

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

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 - 52

LUMO 75 (65)

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**

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

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

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SOLUTIONS WITH PASSION

1

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

Mounting hole

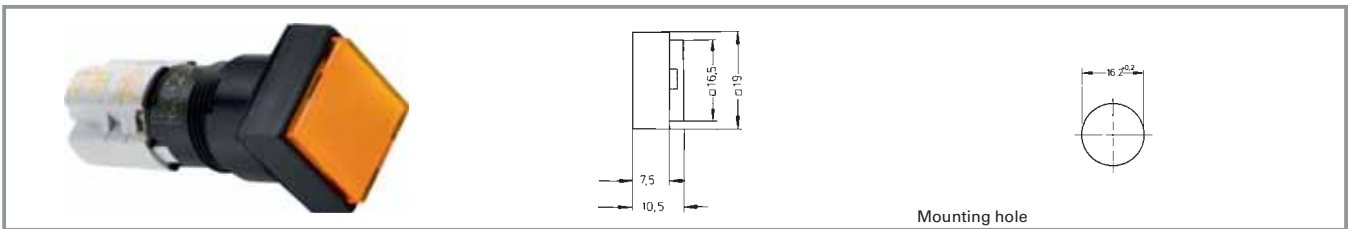| Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.481/0000**	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	**1.15.108.981/0000**	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black	**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 - 52

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**

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

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

RAFI
SOLUTIONS WITH PASSION

1

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

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 - 52

LUMO 75 (65)

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**
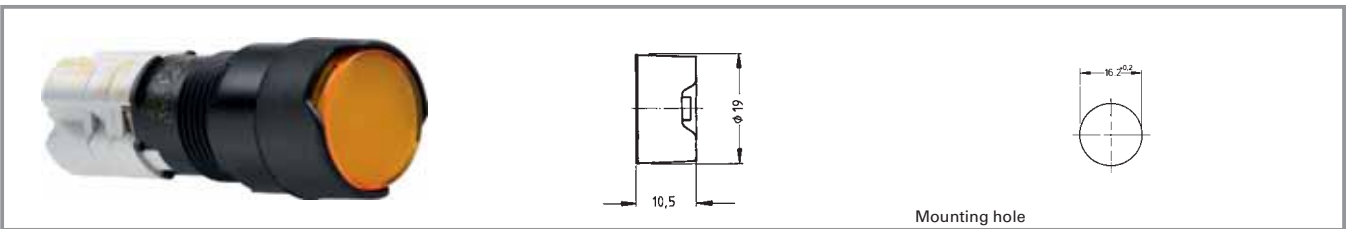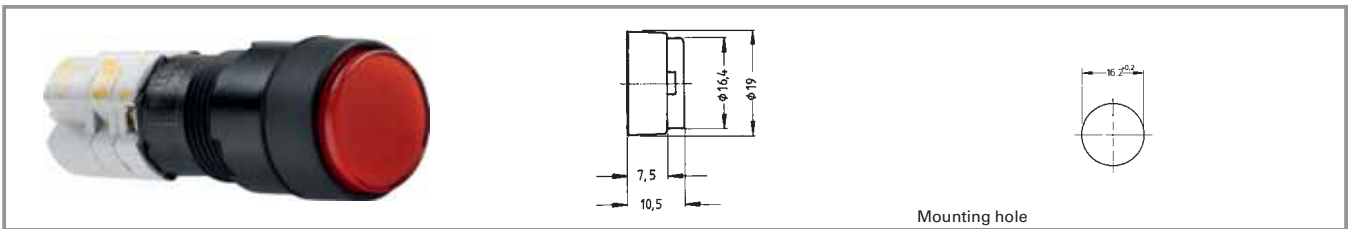Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

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

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

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SOLUTIONS WITH PASSION

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

Panel cut-out

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 - 52

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
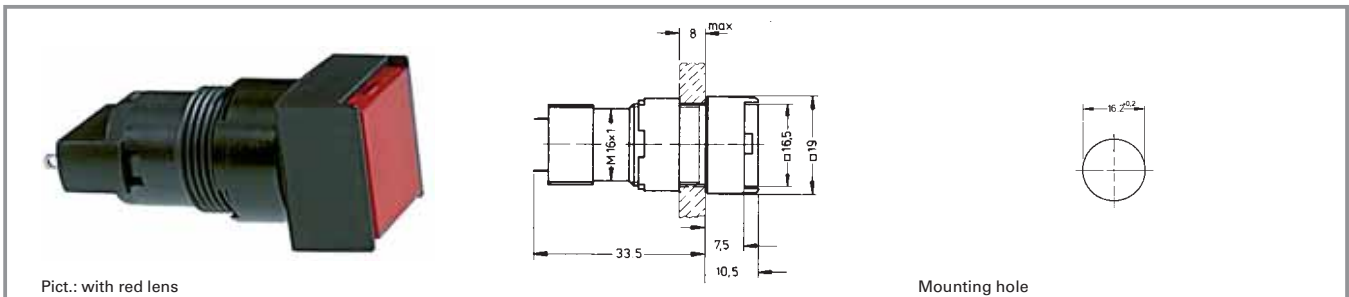Lens, rectangular, transparent blue, for filament lamp: 5.49.277.058/1601

Accessoires:
Legend insert, rectangular without legend: 5.70.630.000/2000

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

1

LUMOTAST 75 IP65 - Signal lamp

Pict.: with red lens

Mounting hole

Technical Data

**LUMO
75 (65)**

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.	35 V
Power limit max.	1.2 W

Other specifications
Degree of protection from front side	IP65
Weight	5 g
Operation temperature min.	-25 °C
Ambient temp. operating max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C

Approvals

UL 508   C22.2 No. 14-M91

Typical accessories LUMOTAST 75 IP65 - Signal lamp

Description	Photo	Order no.	Additional accessories see 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 - 16
LED T 4.5 superbright, green, 24 V		**1.90.690.332/0000**	5 - 16

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

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Typical accessories LUMOTAST 75 IP65 - Signal lamp

Description	Photo	Order no.	Additional accessories see page
LEDT 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 16
LEDT 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 16
LEDT 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 16
LEDT 4.5, red, 2-3 V (use external resistor)		**1.90.692.001/0000**	5 - 16
LEDT 4.5, yellow, 2-3 V (use external resistor)		**1.90.692.003/0000**	5 - 16
Lamp extractor for lamp diameter 4 mm		**1.90.900.002/0000**	5 - 5, 5 - 6, 5 - 20
Lamp extractor for lamp diameter 5-6 mm		**1.90.900.004/0000**	5 - 16, 5 - 20
Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm		5.52.006.020/0103	5 - 26
Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm		5.52.006.021/0100	5 - 26
Blanking cap, black, to cover spare holes, round 18 mm		5.52.006.022/0100	5 - 26
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

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**LUMO
75 (65)**

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

1

LUMOTAST 75 IP65 - Signal lamp, flush lens, square collar
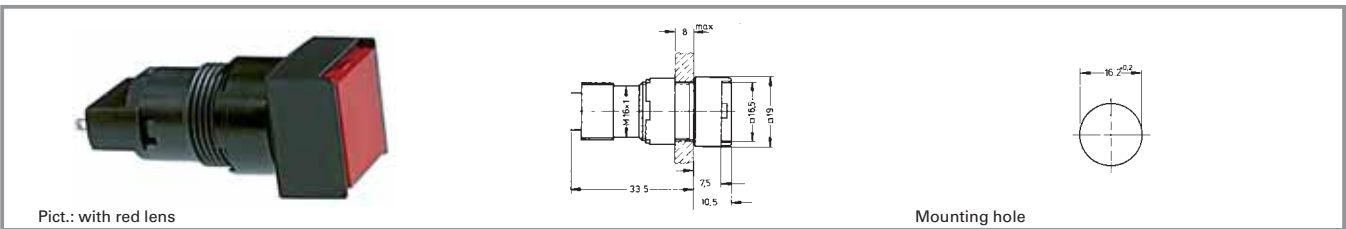
Pict.: with red lens   Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
35 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 - 60

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**

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

For assembly, press the lens as far as possible.

LUMOTAST 75 IP65 - Signal lamp, 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
35 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 - 60

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**
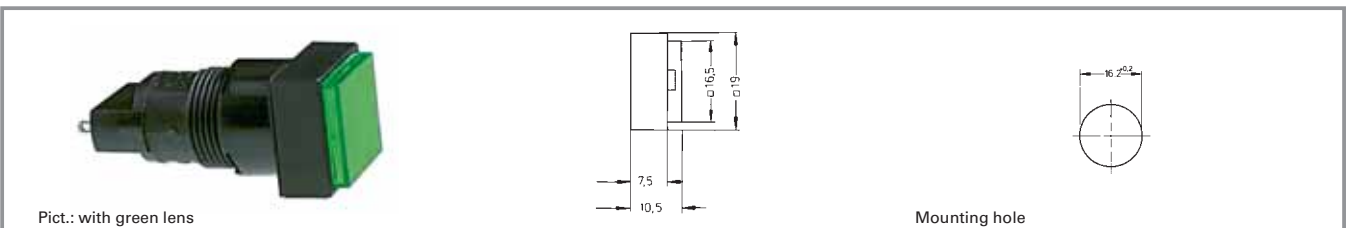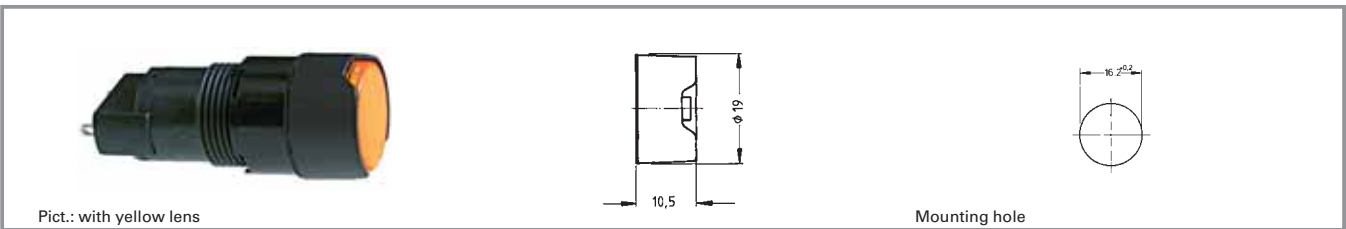Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

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

For assembly, press the lens as far as possible.

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

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LUMOTAST 75 IP65 - Signal lamp, 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
35 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 - 60

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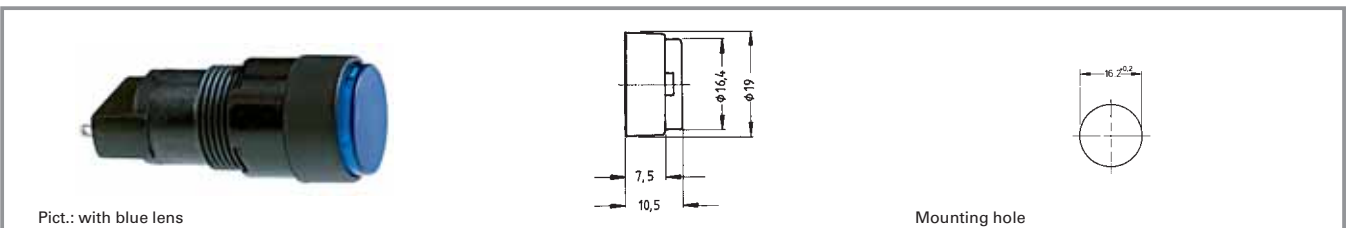
Accessoires:
Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

LUMO 75 (65)

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

Pict.: with blue lens

Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
35 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 - 60

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**

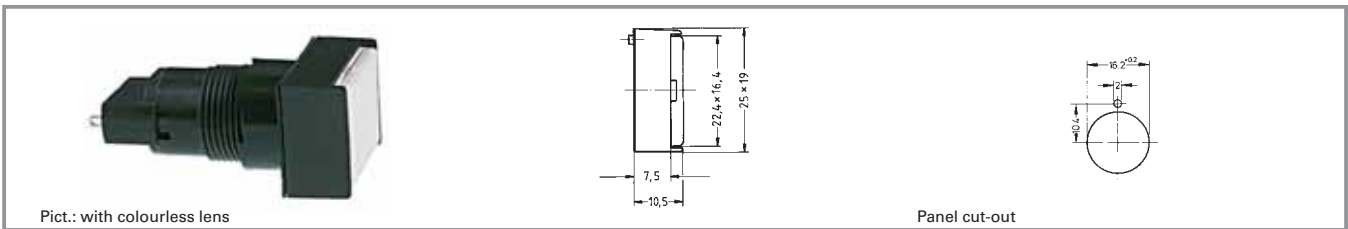**Accessoires:**
Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

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

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

Pict.: with colourless lens

Panel cut-out

Voltage limit max.	Power limit max.	Lamp socket	Form of collar	Order no. without lens	Note
35 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 - 60

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

LUMO 75 (65)

Accessoires:
Legend insert, rectangular without legend: 5.70.630.000/2000

For assembly, press the lens as far as possible.

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