



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)

LUMO
75 (65)

Content

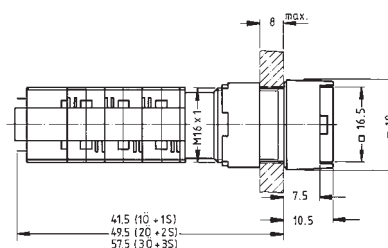
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LUMOTAST 75 IP65 - Illuminated pushbutton



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 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

Approvals



UL 508



C22.2 No. 14-M91

Typical accessories LUMOTAST 75 IP65 - Illuminated pushbutton

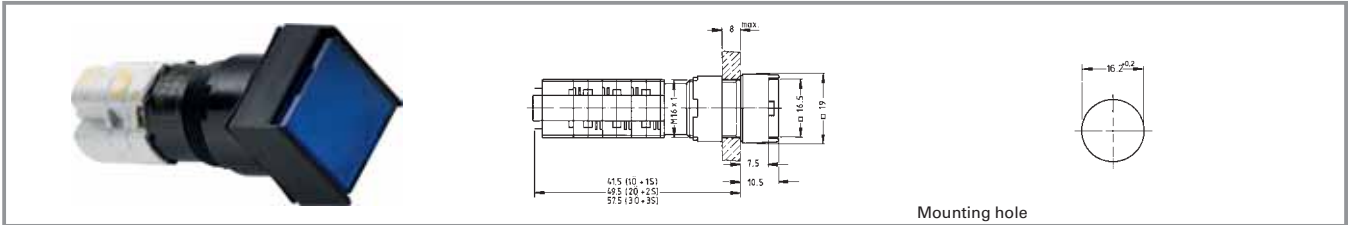
Description	Photo	Order no.	Additional accessories see page
Filament lamp, T 4.5 base, 12 V		1.90.100.022/0000	5 - 6
Filament lamp, T 4.5 base, 24 V		1.90.100.023/0000	5 - 6
LED T 4.5 superbright, red, 24 V		1.90.690.331/0000	5 - 16
LED T 4.5 superbright, green, 24 V		1.90.690.332/0000	5 - 16
LED T 4.5 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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LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, square collar



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.

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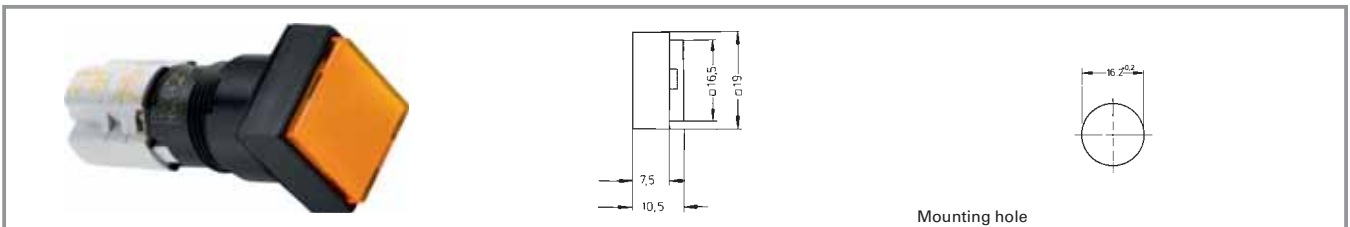
Lenses:

- 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**

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



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

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**

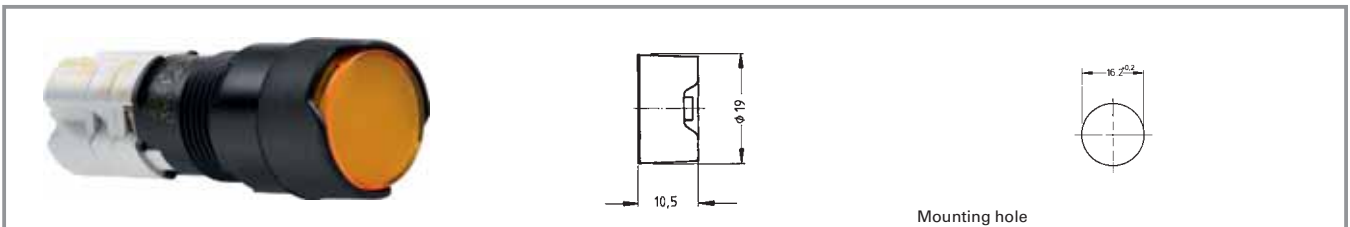
Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

Accessoires:

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

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



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.

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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**

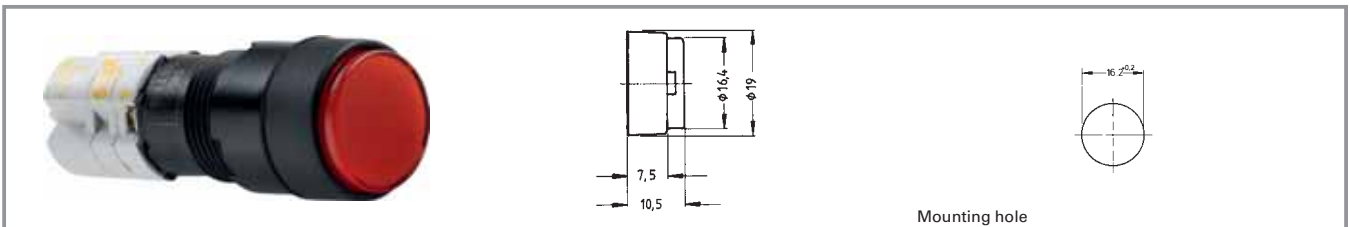
Lens, round, transparent green, for LED: **5.49.259.013/1503**

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

Accessoires:

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

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



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

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**

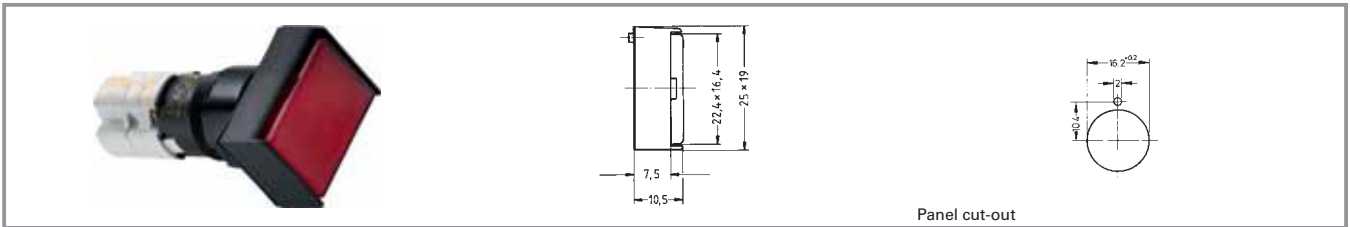
Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

Accessoires:

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

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



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.

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Technical data see page 1 - 52

Lenses:

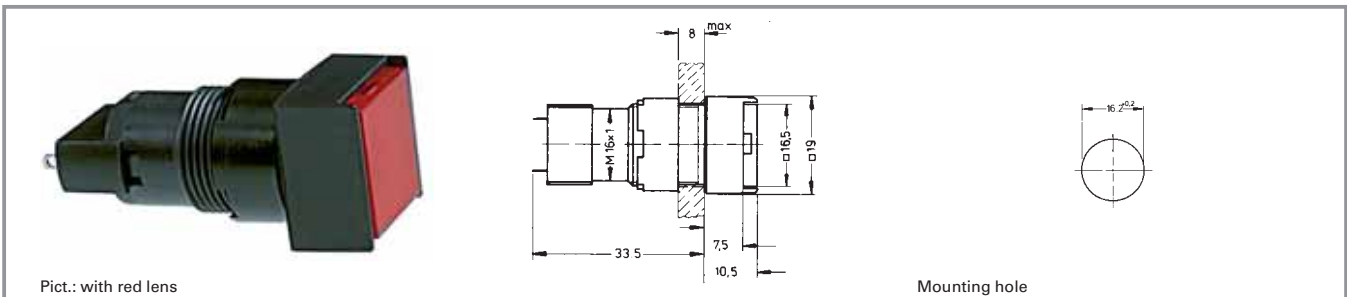
- Lens, rectangular, transparent colourless, for filament lamp or LED: 5.49.277.058/1002
- Lens, rectangular, transparent red, for LED: 5.49.277.058/1301
- Lens, rectangular, transparent red, for filament lamp: 5.49.277.058/1303
- Lens, rectangular, transparent yellow, for filament lamp or LED: 5.49.277.058/1402
- 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

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LUMOTAST 75 IP65 - Signal lamp



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.	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

Typical accessories LUMOTAST 75 IP65 - Signal lamp

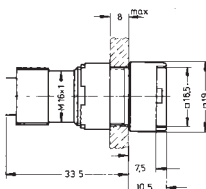
Description	Photo	Order no.	Additional accessories see page
LEDT 4.5 superbright, yellow, 24 V		1.90.690.333/0000	5 - 16
LEDT 4.5 superbright, blue, 24 V		1.90.690.334/0000	5 - 16
LEDT 4.5 superbright, white, 24 V		1.90.690.335/0000	5 - 16
LEDT 4.5, red, 2-3 V (use external resistor)		1.90.692.001/0000	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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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:

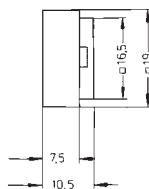
 Legend insert, square, without legend: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

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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**

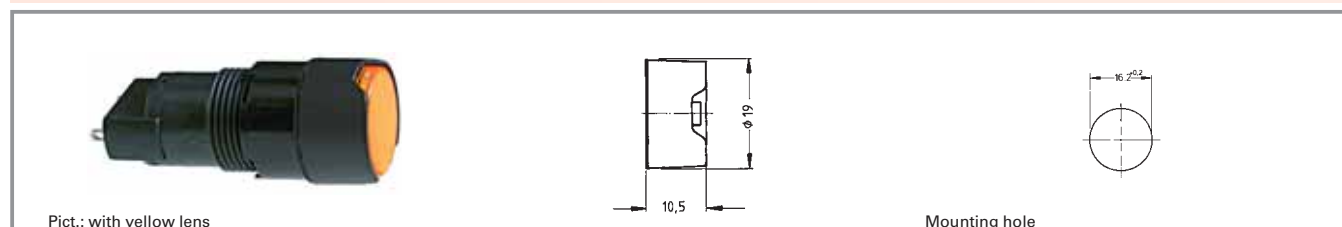
 Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**

 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.

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


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**

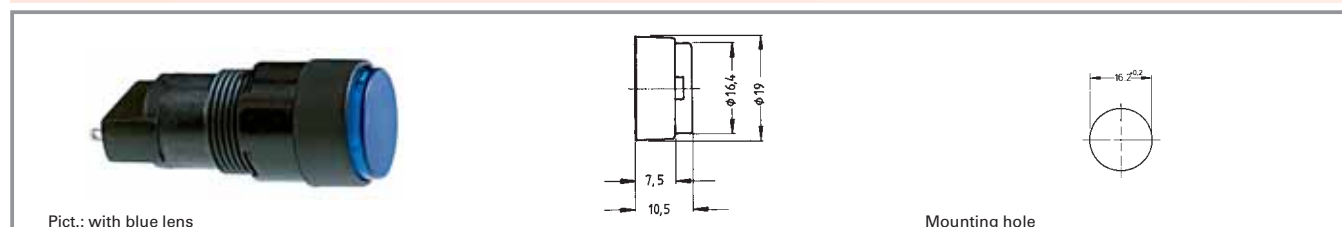
Lens, round, transparent green, for LED: **5.49.259.013/1503**

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.

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


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**

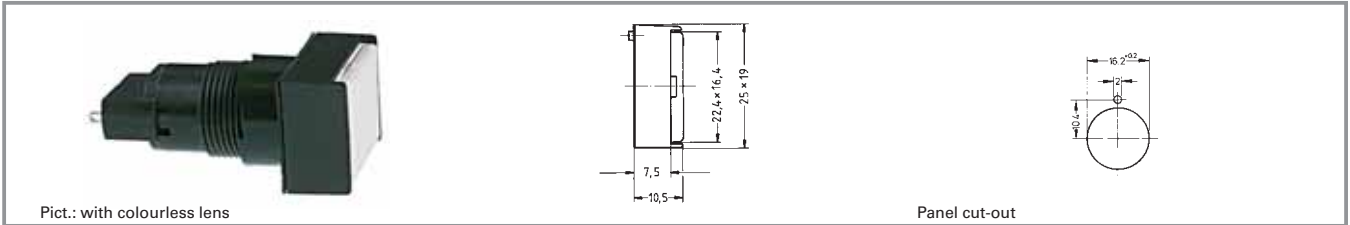
Accessoires:

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

For assembly, press the lens as far as possible.

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



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

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

For assembly, press the lens as far as possible.

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75 (65)