1

General Data

LUMOTAST 75 IP40 - Pushbutton range
Illuminated pushbuttons, signal lamps and keylock switches
• Mounting hole diameter 16.2 mm
• Degree of protection IP40
• 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)
• Lamp socket T 4.5

Content

1

LUMOTAST 75 IP40 - Illuminated pushbutton

Mounting hole

Technical Data

General information
Form of lens	see order block
Form of collar	see order block
Colour 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	7.5 mm
Mounting depth	41.5/49.5/57.5 mm
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 max.	3 ... 6.5 N
Operating travel	2.7 mm
Switching travel NC	1.6 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

Other specifications
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
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
Flame class acc. to UL 94	V 1
Hot wire ignition acc. to IEC 60695-2-1	yes

Approvals

UL 508   C22.2 No. 14-M91

RAFI
SOLUTIONS WITH PASSION
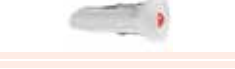
Typical accessories LUMOTAST 75 IP40 - Illuminated pushbutton

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

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

1

LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, round collar
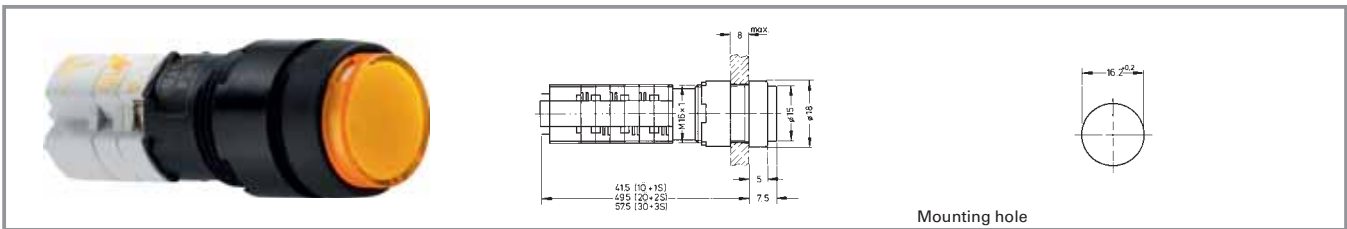
Mounting hole

LUMO 75 (40)

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

Technical data see page 1 - 36

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**
Lens, round, transparent red, for LED: **5.49.257.011/1301**
Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**
Lens, round, transparent green, for filament lamp: **5.49.257.011/1502**
Lens, round, transparent green, for LED: **5.49.257.011/1503**
Lens, round, transparent blue, for filament lamp: **5.49.257.011/1601**

Accessoires:
Diffuser, round, for filament lamp, without legend: **5.72.050.000/0202**
Diffuser, round, for LED, without legend: **5.72.050.000/0214**

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

RAFI
SOLUTIONS WITH PASSION

1

LUMOTAST 75 IP40 - 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	**1.15.108.251/0000**	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.
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.

LUMO 75 (40)

Technical data see page 1 - 36

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**
Lens, square, transparent red, for LED: **5.49.275.036/1301**
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**
Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**
Lens, square, transparent green, for LED: **5.49.275.036/1503**
Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**

Accessoires:
Sealing cap IP65 (for 18 x 18 collar): 5.05.200.009/0000
Protective cap (for 18 x 18 collar): 5.05.800.030/0000
Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**
Diffuser, square, for LED, without legend: **5.73.013.000/0214**

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

RAFI
SOLUTIONS WITH PASSION

1

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

Panel cut-out

**LUMO
75 (40)**

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

Technical data see page 1 - 36

Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.275.032/1002**
Lens, rectangular, transparent red, for LED: **5.49.275.032/1301**
Lens, rectangular, transparent red, for filament lamp: **5.49.275.032/1303**
Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.275.032/1402**
Lens, rectangular, transparent green, for filament lamp: **5.49.275.032/1502**
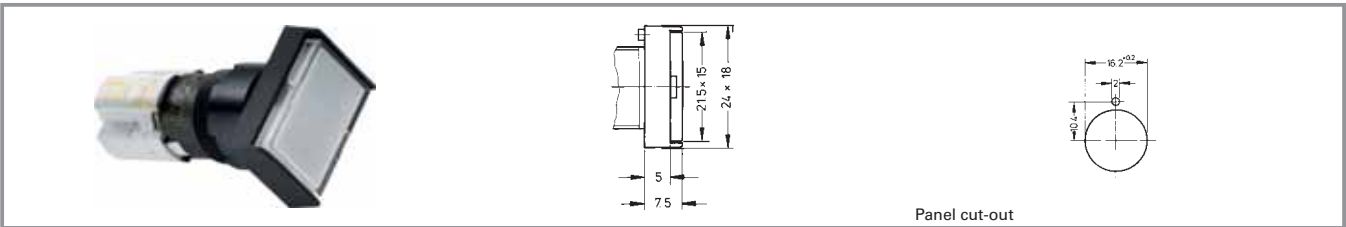Lens, rectangular, transparent green, for LED: **5.49.275.032/1503**
Lens, rectangular, transparent blue, for filament lamp: **5.49.275.032/1601**

Accessoires:
Sealing cap IP65 (for 18 x 24 collar): 5.05.200.008/0000
Protective cap (for 18 x 24 collar): 5.05.800.027/0000
Diffuser, rectangular, for filament lamp, without legend: **5.73.012.000/0202**
Diffuser, rectangular, for LED, without legend: **5.73.012.000/0214**

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

1

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

Mounting hole

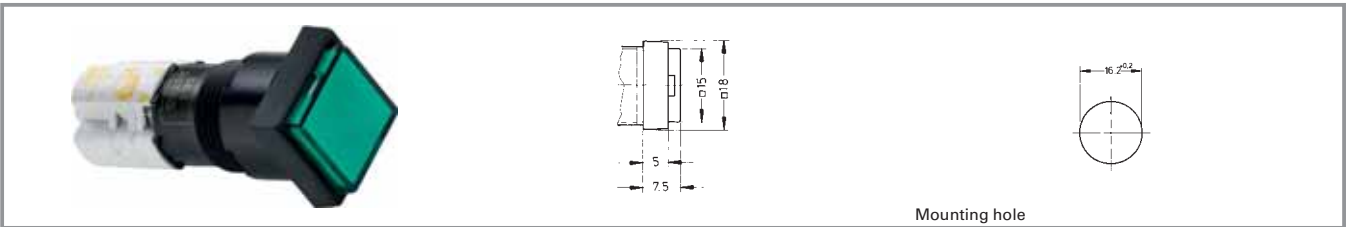| Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	1.15.108.256/0000	Please include the desired lens and diffuser in your order.
1 NC + 1 NO	latching	black	1.15.108.356/0000	Please include the desired lens and diffuser in your order.
2 NC + 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.

Technical data see page 1 - 36

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**
Lens, square, transparent red, for LED: **5.49.275.036/1301**
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**
Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**
Lens, square, transparent green, for LED: **5.49.275.036/1503**
Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**

Accessoires:
Sealing cap IP65 (for 18 x 18 collar): 5.05.200.009/0000
Protective cap (for 18 x 18 collar): 5.05.800.030/0000
Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**
Diffuser, square, for LED, without legend: **5.73.013.000/0214**

LUMO 75 (40)

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

RAFI
SOLUTIONS WITH PASSION

1

LUMOTAST 75 IP40 - Keylock switch

Mounting hole

Technical Data

General information

Form of lens	see order block
Colour 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.	220 V
Rated voltage AC/DC min.	12 V
Rated current AC max.	4 A
Rated current DC max.	0.02 A
Rated current AC/DC min.	5 mA
Contact resistance acc. to life max.	200 mΩ
Bouncing time max.	10 ms
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
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental restistance	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

Approvals


UL 508   C22.2 No. 14-M91

RAFI
SOLUTIONS WITH PASSION

1

Typical 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 - 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
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
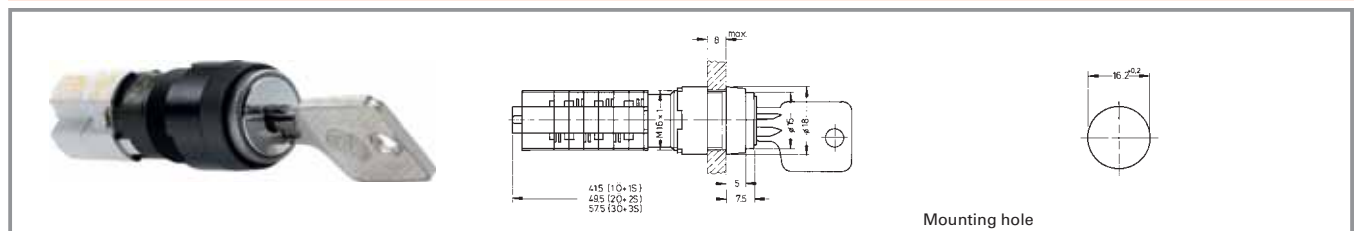
Mounting hole

Contact arrangement	Contact function	Rotating angle	Key removal position		Colour of collar	Order no.
1 NC + 1 NO	latching	90°	0		black	1.15.108.851/0000
1 NC + 1 NO	latching	90°	0+1		black	1.15.108.911/0000
1 NC + 1 NO	momentary	45°	0		black	1.15.108.941/0000
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

Technical data see page 1 - 42

Included: 2 keys.
Other lock variants and contacts available on request.

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

RAFI
SOLUTIONS WITH PASSION

LUMOTAST 75 IP40 - Keylock switch, rectangular collar

Panel cut-out

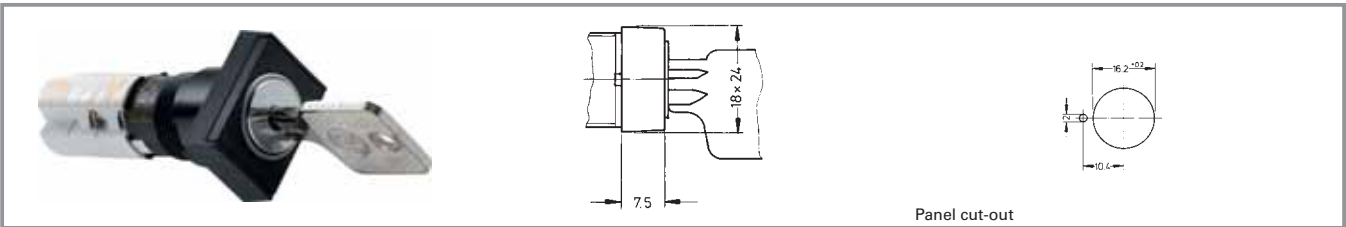| Contact arrangement	Contact function	Rotating angle	Key removal position		Colour of collar	Order no.
1 NC + 1 NO	latching	90°	0		black	1.15.108.571/0100
1 NC + 1 NO	latching	90°	0+1		black	1.15.108.631/0100
1 NC + 1 NO	momentary	45°	0		black	1.15.108.661/0100
2 NC + 2 NO	latching	90°	0		black	1.15.108.572/0100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

Technical data see page 1 - 42

Included: 2 keys.
Other lock variants and contacts available on request.

RAFI
SOLUTIONS WITH PASSION

1

LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

Pict.: with blue lens

Mounting hole

Technical Data

LUMO
75 (40)
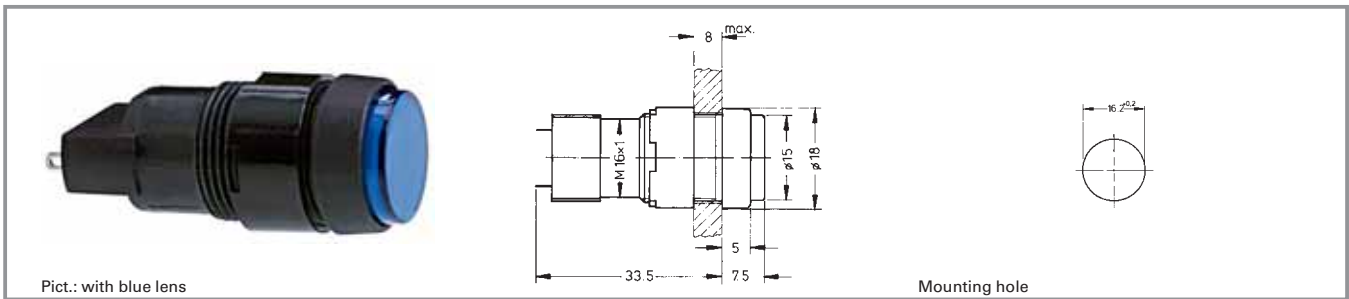
General information
Form of lens	see order block
Form of collar	see order block
Colour of collar	see order block

Dimensions
Length of collar	see order block
Width of collar	see order block
Diameter of collar	see order block
Overall height	7.5 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	IP40
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 restistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Approvals

UL 508

C22.2 No. 14-M91

Typical accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

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

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

RAFI
SOLUTIONS WITH PASSION

Typical accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

Description	Photo	Order no.	Additional accessories see page
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
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

Pushbuttons

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

1

LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5, round collar, protruding lens
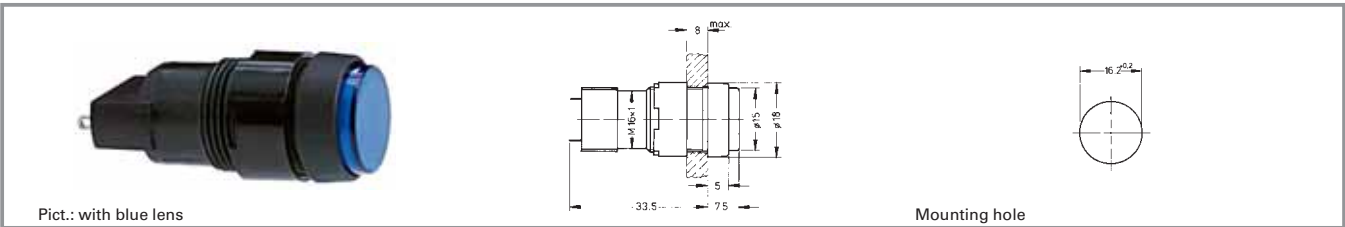
Pict.: with blue lens

Mounting hole

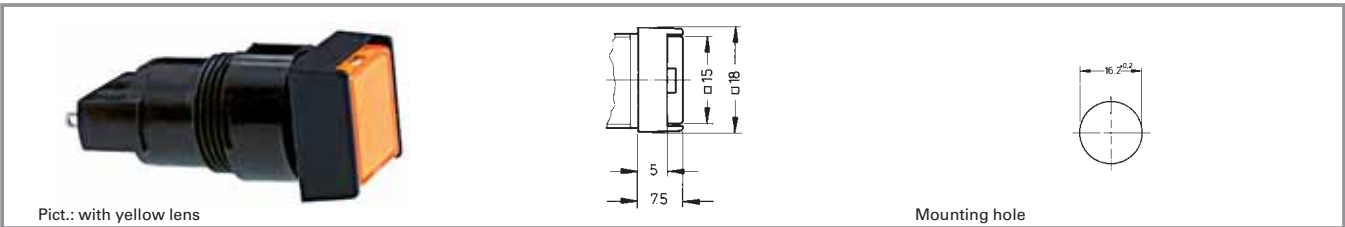| Voltage limit max.	Power limit max.	Lamp socket	Colour of collar	Order no. without lens	Note
35 V	1.2 W	T 4.5	black	**1.65.111.071/0000**	Please include the desired lens and diffuser in your order.

Technical data see page 1 - 46

Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**
Lens, round, transparent red, for LED: **5.49.257.011/1301**
Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**
Lens, round, transparent green, for filament lamp: **5.49.257.011/1502**
Lens, round, transparent green, for LED: **5.49.257.011/1503**
Lens, round, transparent blue, for filament lamp: **5.49.257.011/1601**

Accessoires:
Diffuser, round, for filament lamp, without legend: **5.72.050.000/0202**
Diffuser, round, for LED, without legend: **5.72.050.000/0214**

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

Pict.: with yellow lens

Mounting hole

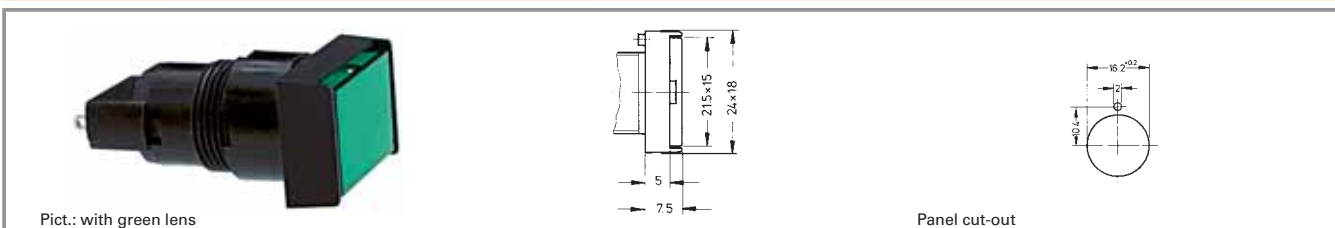| Voltage limit max.	Power limit max.	Lamp socket	Colour of collar	Order no. without lens	Note
35 V	1.2 W	T 4.5	black	**1.65.111.061/0000**	Please include the desired lens and diffuser in your order.

Technical data see page 1 - 46

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**
Lens, square, transparent red, for LED: **5.49.275.036/1301**
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**
Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**
Lens, square, transparent green, for LED: **5.49.275.036/1503**
Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**

Accessoires:
Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**
Diffuser, square, for LED, without legend: **5.73.013.000/0214**

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

RAFI
SOLUTIONS WITH PASSION

1

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

Pict.: with green lens

Panel cut-out

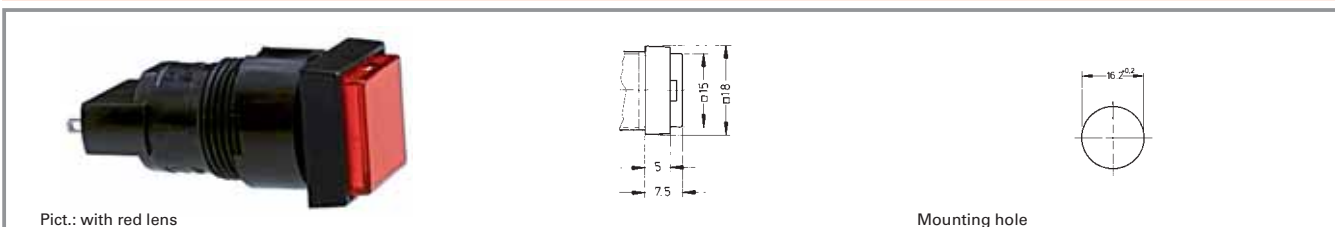| Voltage limit max.	Power limit max.	Lamp socket	Colour of collar	Order no. without lens	Note
35 V	1.2 W	T 4.5	black	**1.65.111.051/0000**	Please include the desired lens and diffuser in your order.

Technical data see page 1 - 46

Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.275.032/1002**
Lens, rectangular, transparent red, for LED: **5.49.275.032/1301**
Lens, rectangular, transparent red, for filament lamp: **5.49.275.032/1303**
Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.275.032/1402**
Lens, rectangular, transparent green, for filament lamp: **5.49.275.032/1502**
Lens, rectangular, transparent green, for LED: **5.49.275.032/1503**
Lens, rectangular, transparent blue, for filament lamp: **5.49.275.032/1601**

Accessoires:
Diffuser, rectangular, for filament lamp, without legend: **5.73.012.000/0202**
Diffuser, rectangular, for LED, without legend: **5.73.012.000/0214**

LUMO 75 (40)

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

Pict.: with red lens

Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Colour of collar	Order no. without lens	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.

Technical data see page 1 - 46

Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**
Lens, square, transparent red, for LED: **5.49.275.036/1301**
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**
Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**
Lens, square, transparent green, for LED: **5.49.275.036/1503**
Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**

Accessoires:
Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**
Diffuser, square, for LED, without legend: **5.73.013.000/0214**