Pushbuttons

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General information

1

Concepts

1. **Momentary pushbuttons** are switching elements which are used for making or breaking contact while they are being pressed.
2. **Latching pushbutton** are used for making or breaking contact until they are returned to their initial position by being pressed again.
3. **Illuminated pushbuttons** have the same functions as described for (1) and (2) and feature an additional lamp socket for accomodating a filament, neon lamp or LED.
4. **Legending** can ce effected using kabel holders, legend inserts, by engraving or hot stamping.

Grooved transparent lenses are not suitable for legending.

CE-Conformity

The products of the Chapter Pushbuttons" can – relating to the CE-conformity according to the Low-Voltage Directive 73/23/EWG – be divided into the following groups:

Emergency-stop components with an operating voltage < 50 V
F. ex. LUMOTAST 25 emergency-stop. For this pushbutton the Machine Directive 89/392/EWG applies.

All products with an operating voltage > 50 V
For these elements the Low-Voltage Directive 72/23/EWG applies.

All products with an operating voltage < 50 V
For these products no directive applies.

Single parts, accessories and illumination
For these products no directive applies.

EMC-Law
The components of this catalogue are within the meaning of the law concerning the Eletromagnetic Conformy (= EMC-Law) "basic components as, f. ex., switches, signal lamps or like" and, therefore, do not fall within the scope of the EMC-Law.

Marking
The marking will be corresponding to the Low-Voltage Directive 73/23/EWG resp. the Directive "CE-Marking 93/68/EWG" either on the packing or on the product itself.

General Data

Illuminable pushbuttons and signal lamps with lamp socket for a mounting hole diameter of 8.1 mm; 35 V, 250 mA max.

Content

8 mm Series - Illuminated pushbutton **1 - 4**
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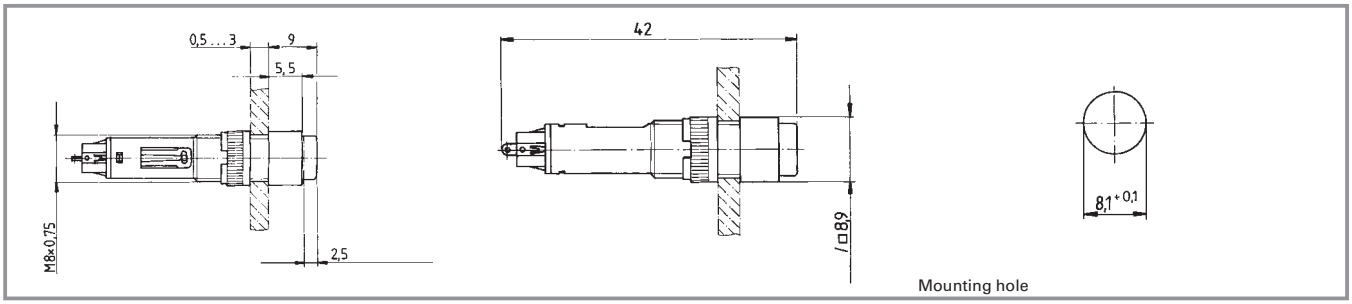
8 mm Series - Illuminated pushbutton



Technical Data

General information

Form of lens	protruding lens
Colour of lens	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	9 mm
Mounting depth	31 mm
Mounting hole	8.1 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Contact system	2 plate springs
Contact function	see order block
Contact arrangement	1 NO
Contact materials	Au
Illumination	yes
Lamp socket	Bi-Pin T 1

Mechanical characteristics

Operating force max.	2.6 N
Operating travel	2.7 mm
Switching travel NO	1 mm
Robustness	100 N

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	250 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	10 ms

Other specifications

Operating life (operations)	1,000,000 (momentary), 100,000 (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
Weight	2 g
Soldering time max.	3 s
Soldering temperature max.	350 °C

Typical accessories 8 mm Series - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-Pin T 1 base, 24 - 28 V		**1.90.180.473/0000**	5 - 5
LED Bi-Pin T 1, red, 3 V		**1.90.691.026/0000**	5 - 15
LED Bi-Pin T 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-Pin T 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15

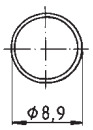
Stock items are marked by **bold printed order numbers.**

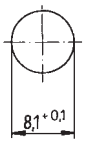
Typical accessories 8 mm Series - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see page
Fixing spanner M 8		**5.58.002.027/7705**	5 - 21

8 mm Series - Illuminated pushbutton, round collar

Pict.: with colourless lens





Mounting hole

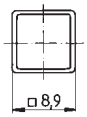
Contact arrangement	Contact function	Lamp socket	Order no. without lens	Note
1 NO	momentary	Bi-PinT 1	1.15.116.001/0000	Please include the desired lens in your order.
1 NO	latching	Bi-PinT 1	1.15.116.011/0000	Please include the desired lens in your order.

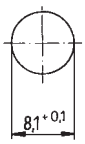
Technical data see page 1 - 4

Lenses:
Lens, transparent colourless: 5.05.510.470/1002
Lens, transparent red: 5.05.510.470/1303
Lens, transparent yellow: 5.05.510.470/1402
Lens, transparent green: 5.05.510.470/1502

8 mm Series - Illuminated pushbutton, square collar

Pict.: with green lens





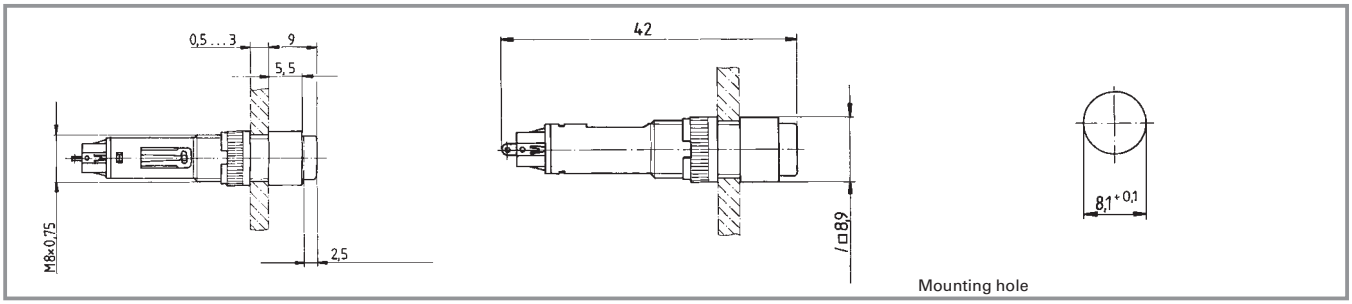
Mounting hole

Contact arrangement	Contact function	Lamp socket	Order no. without lens	Note
1 NO	momentary	Bi-PinT 1	1.15.116.021/0000	Please include the desired lens in your order.
1 NO	latching	Bi-PinT 1	1.15.116.031/0000	Please include the desired lens in your order.

Technical data see page 1 - 4

Lenses:
Lens, transparent colourless: 5.05.510.471/1002
Lens, transparent red: 5.05.510.471/1303
Lens, transparent yellow: 5.05.510.471/1402
Lens, transparent green: 5.05.510.471/1502

8 mm Series - Signal lamp



Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	see order block

Dimensions

Length of collar	8.9 mm
Width of collar	8.9 mm
Diameter of collar	see order block
Overall height	9 mm
Mounting depth	31 mm
Mounting hole	8.1 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Lamp socket	Bi-Pin T 1
Lamp	filament lamp / LED

Electrical characteristics

Voltage limit max.	24 V
Power limit max.	0.4 W

Other specifications

Degree of protection from front side	IP40
Weight	2 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
Soldering time max.	3 s
Soldering temperature max.	350 °C

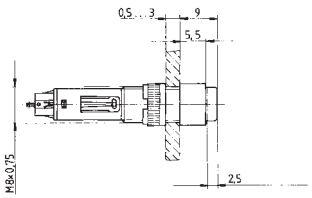
Typical accessories 8 mm Series - Signal lamp

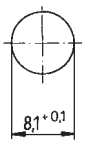
Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-Pin T 1 base, 24 - 28 V		**1.90.180.473/0000**	5 - 5
LED Bi-Pin T 1, red, 3 V		**1.90.691.026/0000**	5 - 15
LED Bi-Pin T 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-Pin T 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15
Fixing spanner M 8		**5.58.002.027/7705**	5 - 21

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

8 mm Series - Signal lamp, round collar

Pict.: with colourless lens





Mounting hole

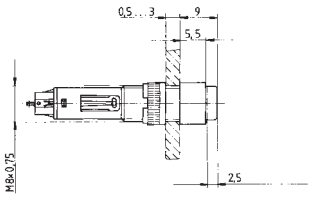
Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.4 W	Bi-Pin T 1	1.65.120.001/0000	Please include the desired lens in your order.

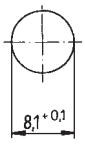
Technical data see page 1 - 6

Lenses:
Lens, transparent colourless: 5.05.510.359/1002
Lens, transparent red: 5.05.510.359/1303
Lens, transparent yellow: 5.05.510.359/1402
Lens, transparent green: 5.05.510.359/1502

8 mm Series - Signal lamp, square collar

Pict.: with green lens





Mounting hole

Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.4 W	Bi-Pin T 1	1.65.120.011/0000	Please include the desired lens in your order.

Technical data see page 1 - 6

Lenses:
Lens, transparent colourless: 5.05.510.360/1002
Lens, transparent red: 5.05.510.360/1303
Lens, transparent yellow: 5.05.510.360/1402
Lens, transparent green: 5.05.510.360/1502

General Data

LUMOTAST FK - Illuminated pushbutton range
- Illuminable pushbuttons and signal lamps with lamp socket T 1/T 1¼.
- Mounting hole diameter 16.2 mm
- 35 V/100 mA max.
- Water-jet proof IP65
- Low profile
- Keyed socket connector and flat ribbon cable in insulation displacement (IDC) technology or PCB plug-in socket
- Time-saving click fixing method: Insert pushbutton into front panel and press pushbutton once to fix it.

Content

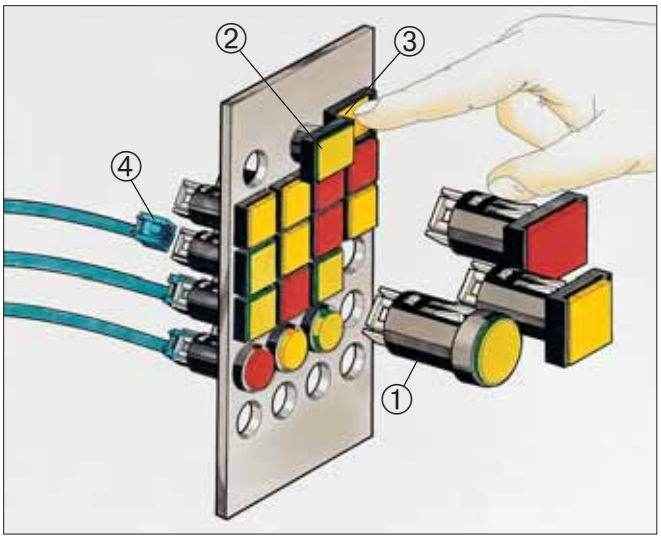
LUMOTAST FK - Illuminated pushbutton **1 - 12**
LUMOTAST FK - Illuminated pushbutton, square collar 1 - 13
LUMOTAST FK - Illuminated pushbutton 1 - 14

LUMOTAST FK - Signal lamp **1 - 16**
LUMOTAST FK - Signal lamp, square collar 1 - 17
LUMOTAST FK - Signal lamp, round collar 1 - 18
LUMOTAST FK - Signal lamp, rectangular collar 1 - 18

Series LUMOTAST FK

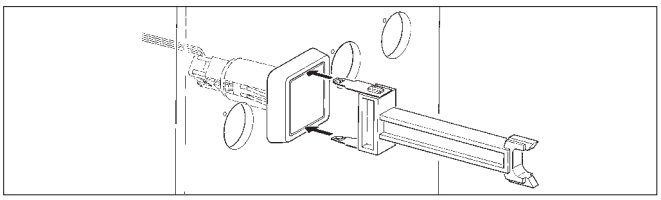
16.2 mm mounting hole diameter

Mounting

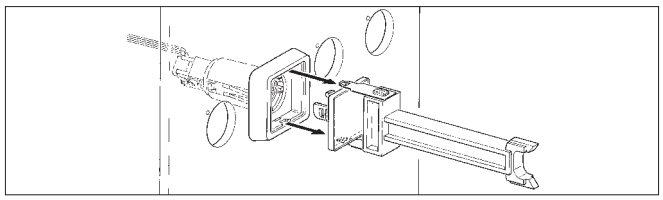


① Pushbutton as supplied
② Insert pushbutton into panel cut-out
③ Press once to fit
④ Attach connector with flat-ribbon cable

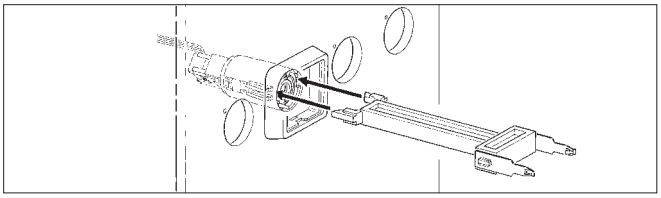
Disassembly from front side



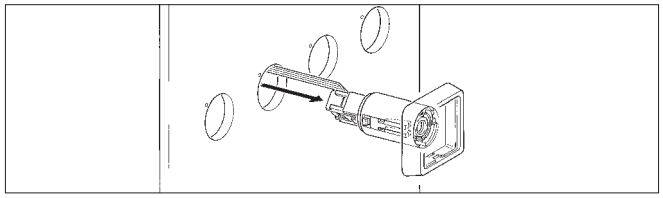
1. Grip body/lens



2. Pull out body/lens



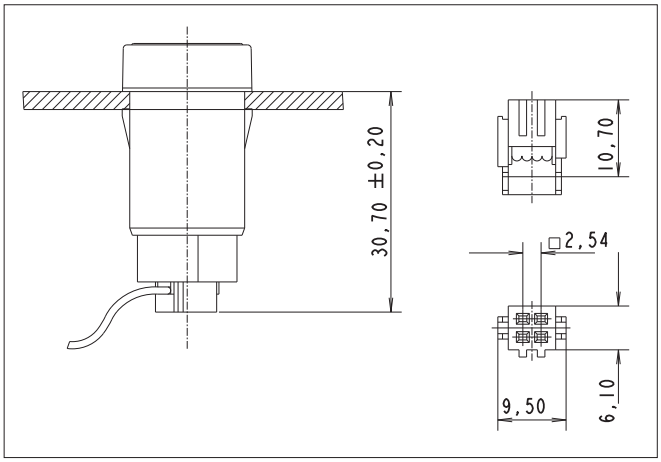
3. Release click lever



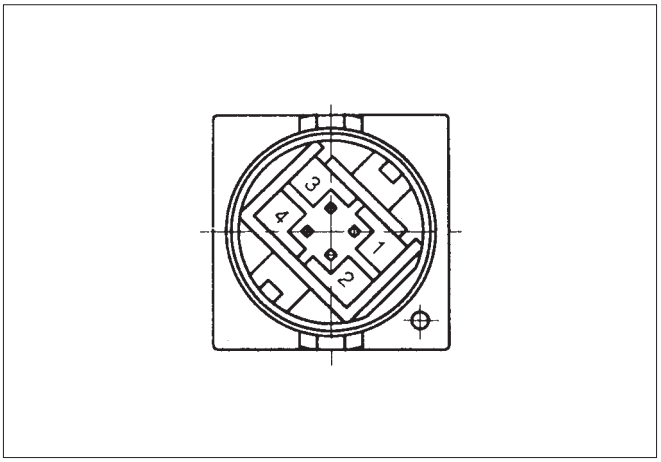
4. Pull out pushbutton/signal lamp with cable

Dimensional drawing

With quick connector and flat-ribbon cable

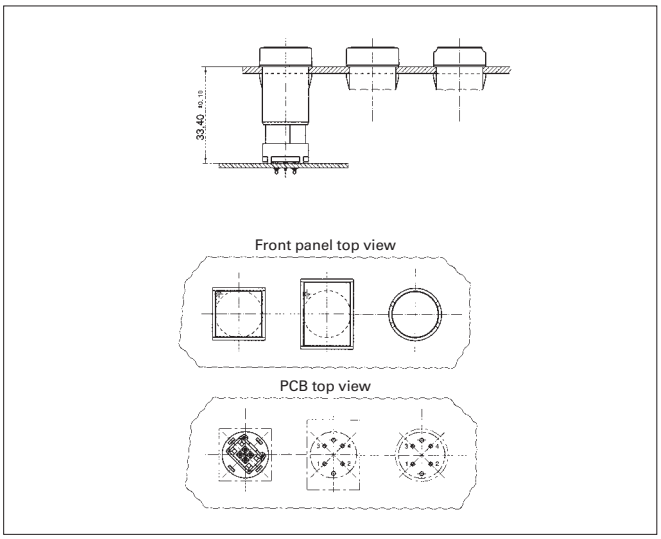


Connection diagram (PCB top view)

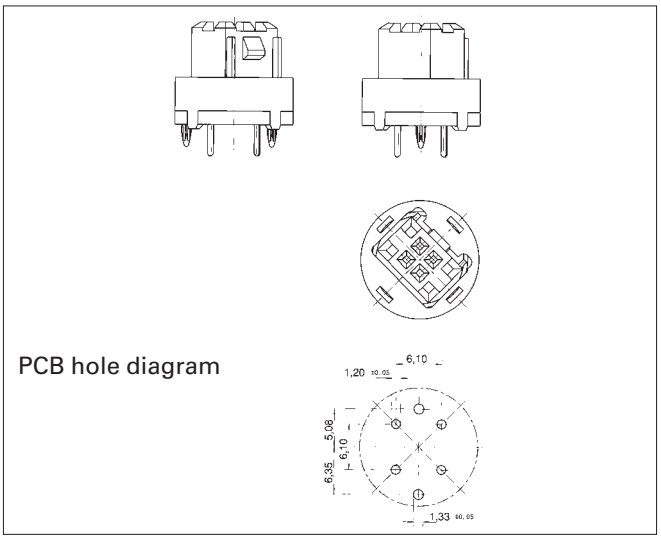


1 + 4 = pushbutton connection, 2 + 3 = lamp connection

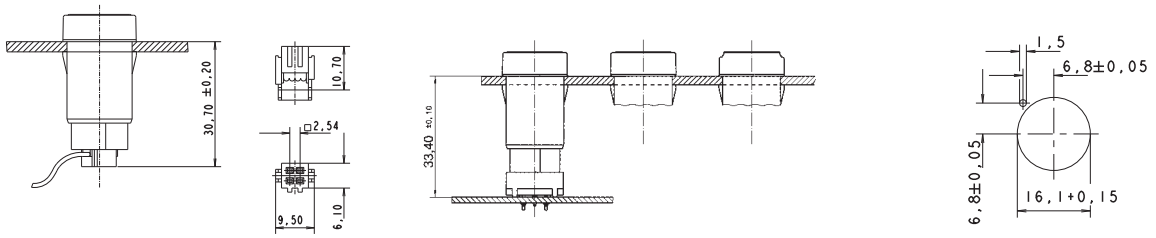
With plug-in socket



Plug-in socket for PCB



LUMOTAST FK - Illuminated pushbutton



Pict.: with socket connector | with plug-in socket for PCB | Panel cut-out

Technical Data

General information

Actuator	flat lens
Colour of lens	see order block
Form 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	6.6 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	click quick connection
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	momentary
Contact arrangement	1 NO
Contact materials	Au
Illumination	yes
Lamp socket	Bi-Pin T1 / T1¼

Mechanical characteristics

Operating force max.	6 N
Operating travel	3 mm
Switching travel	1.9 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance acc. to life max.	300 mΩ
Contact resistance when new max.	100 mΩ
Bouncing time max.	5 mΩ

Other specifications

Operating life (operations)	1,000,000
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	6 g

Typical accessories LUMOTAST FK - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-Pin T 1¼ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-Pin T 1¼ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-Pin T 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 15

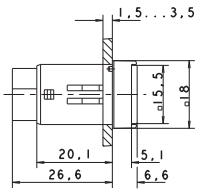
Stock items are marked by **bold printed order numbers.**

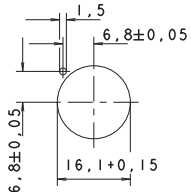
Typical accessories LUMOTAST FK - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see page
LED Bi-PinT 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 15
LED Bi-PinT 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 15
LED Bi-PinT 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 15
LED Bi-PinT 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 15
LED Bi-PinT 1, red, 3 V		**1.90.691.026/0000**	5 - 15
LED Bi-PinT 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-PinT 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Disassembly tool for LUMOTAST FK		5.05.800.041/0000	5 - 22
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST FK - Illuminated pushbutton, square collar

Pict.: with yellow lens





Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.114.906/0000**	Please include the desired lens in your order.

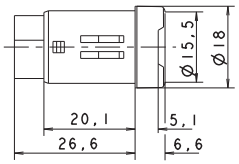
Technical data see page 1 - 12

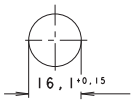
Lenses:
Lens, square, transparent colourless: **5.49.075.015/1002**
Lens, square, transparent red: **5.49.075.015/1306**
Lens, square, transparent yellow: **5.49.075.015/1403**
Lens, square, transparent green: **5.49.075.015/1505**
Lens, square, transparent blue: **5.49.075.015/1607**

A notch on the lamp socket identifies the cathode side.

LUMOTAST FK - Illuminated pushbutton

Pict.: with green lens





Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.114.936/0000**	Please include the desired lens in your order.

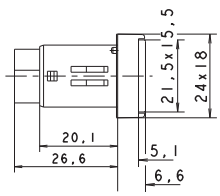
Technical data see page 1 - 12

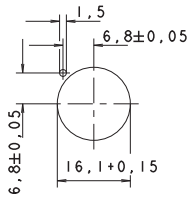
Lenses:
Lens, round, transparent colourless: **5.49.075.016/1002**
Lens, round, transparent red: **5.49.075.016/1306**
Lens, round, transparent yellow: **5.49.075.016/1403**
Lens, round, transparent green: **5.49.075.016/1505**
Lens, round, transparent blue: **5.49.075.016/1607**

A notch on the lamp socket identifies the cathode side.

LUMOTAST FK - Illuminated pushbutton

Pict.: with red lens





Panel cut-out

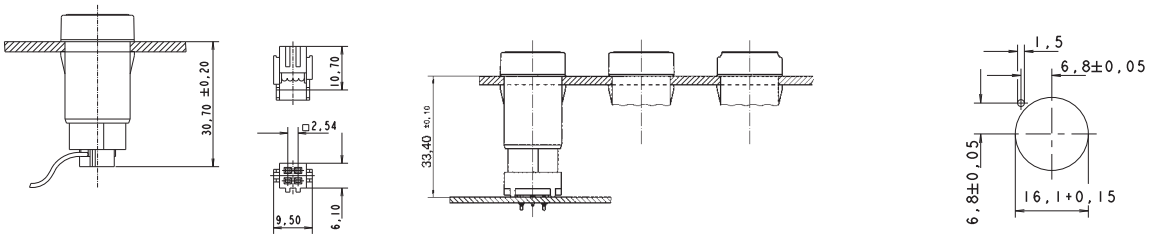
Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.114.966/0000**	Please include the desired lens in your order.

Technical data see page 1 - 12

Lenses:
Lens, rectangular, transparent colourless: **5.49.075.017/1002**
Lens, rectangular, transparent red: **5.49.075.017/1306**
Lens, rectangular, transparent yellow: **5.49.075.017/1403**
Lens, rectangular, transparent green: **5.49.075.017/1505**
Lens, rectangular, transparent blue: **5.49.075.017/1607**

A notch on the lamp socket identifies the cathode side.

LUMOTAST FK - Signal lamp



Pict.: with socket connector | with plug-in socket for PCB | Panel cut-out

Technical Data

General information

Form of lens	flat lens
Colour of lens	see order block
Form of collar	see order block

Dimensions

Length of collar	see order block
Width of collar	see order block
Overall height	see order block
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	click quick connection
Terminals	pin connector 4-pol./ plug-in socket
Lamp socket	Bi-Pin T 1/T 1¼
Lamp	filament lamp / LED

Electrical characteristics

Voltage limit max.	24 V
Power limit max.	0.7 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
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Typical accessories LUMOTAST FK - Signal lamp

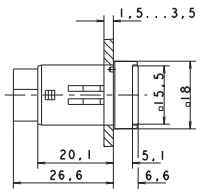
Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-Pin T 1¼ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-Pin T 1¼ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-Pin T 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 15
LED Bi-Pin T 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 15
LED Bi-Pin T 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 15
LED Bi-Pin T 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 15
LED Bi-Pin T 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 15

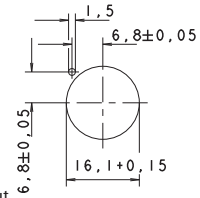
Typical accessories LUMOTAST FK - Signal lamp

Description	Photo	Order no.	Additional accessories see page
LED Bi-PinT 1, red, 3 V		**1.90.691.026/0000**	5 - 15
LED Bi-PinT 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-PinT 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Disassembly tool for LUMOTAST FK		5.05.800.041/0000	5 - 22
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST FK - Signal lamp, square collar

Pict.: with red lens





Panel cut-out

Power limit max.	Voltage limit max.	Lamp socket	Order no. without lens	Note
0.7 W	24 V	Bi-PinT 1/T 1¼	**1.65.121.906/0000**	Please include the desired lens in your order.

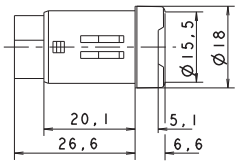
Technical data see page 1 - 16

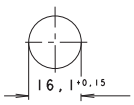
Lenses:
Lens, square, transparent colourless: **5.49.075.015/1002**
Lens, square, transparent red: **5.49.075.015/1306**
Lens, square, transparent yellow: **5.49.075.015/1403**
Lens, square, transparent green: **5.49.075.015/1505**
Lens, square, transparent blue: **5.49.075.015/1607**

Do not press in lens in disassembled condition.
A notch on the lamp socket identifies the cathode side.

LUMOTAST FK - Signal lamp, round collar

Pict.: with yellow lens





Panel cut-out

Power limit max.	Voltage limit max.	Lamp socket	Order no. without lens	Note
0.7 W	24 V	Bi-Pin T 1/T 1¼	**1.65.121.936/0000**	Please include the desired lens in your order.

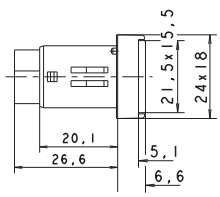
Technical data see page 1 - 16

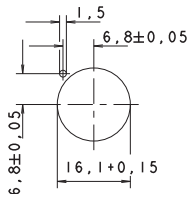
Lenses:
Lens, round, transparent colourless: **5.49.075.016/1002**
Lens, round, transparent red: **5.49.075.016/1306**
Lens, round, transparent yellow: **5.49.075.016/1403**
Lens, round, transparent green: **5.49.075.016/1505**
Lens, round, transparent blue: **5.49.075.016/1607**

Do not press in lens in disassembled condition.
A notch on the lamp socket identifies the cathode side.

LUMOTAST FK - Signal lamp, rectangular collar

Pict.: with blue lens





Panel cut-out

Power limit max.	Voltage limit max.	Lamp socket	Order no. without lens	Note
0.7 W	24 V	Bi-Pin T 1/T 1¼	**1.65.121.966/0000**	Please include the desired lens in your order.

Technical data see page 1 - 16

Lenses:
Lens, rectangular, transparent colourless: **5.49.075.017/1002**
Lens, rectangular, transparent red: **5.49.075.017/1306**
Lens, rectangular, transparent yellow: **5.49.075.017/1403**
Lens, rectangular, transparent green: **5.49.075.017/1505**
Lens, rectangular, transparent blue: **5.49.075.017/1607**

Do not press in lens in disassembled condition.
A notch on the lamp socket identifies the cathode side.

General Data

LUMOTAST 25 - Pushbutton range
- Illuminable pushbuttons and signal lamps.
- Mounting hole diameter: 16.2 mm
- 35 V/100 mA max.
- Water-jet proof IP65
- Low profile
- Lamp socket Bi-Pin T 1 for LEDs and filament lamps
- Keyed socket connector and flat ribbon cable or PCB plug-in socket
- Ring nut or click fixing method.

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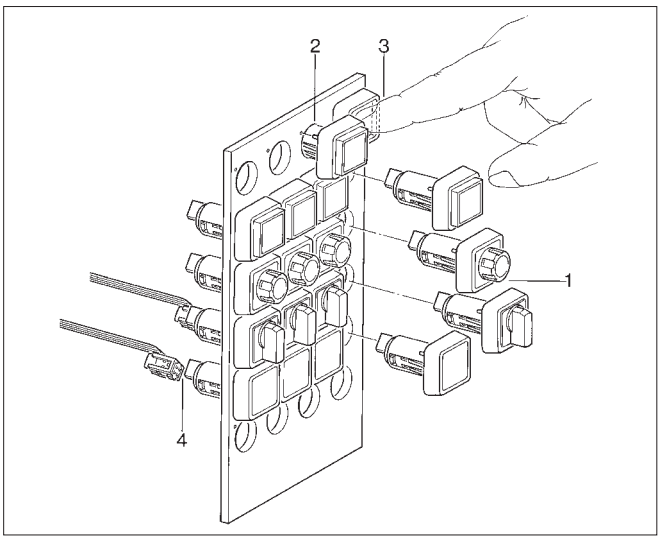
Series LUMOTAST 25

16.2 mm mounting hole diameter

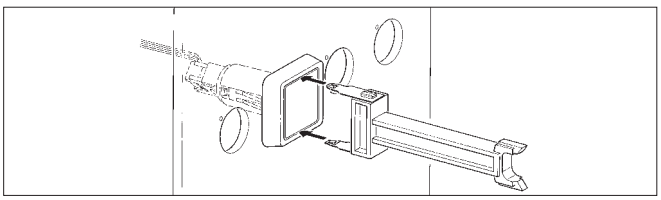
Mounting of Click-Version



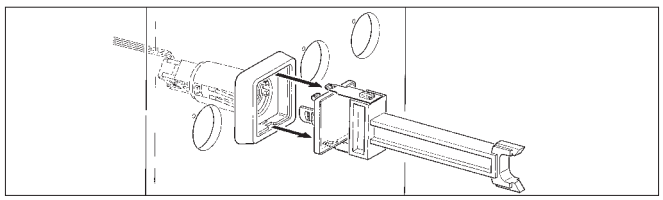
1. As delivered
2. Insert pushbutton in hole
3. Actuate once
4. Insert connector with flat-ribbon cable

Disassembly Click-Version from Front Side

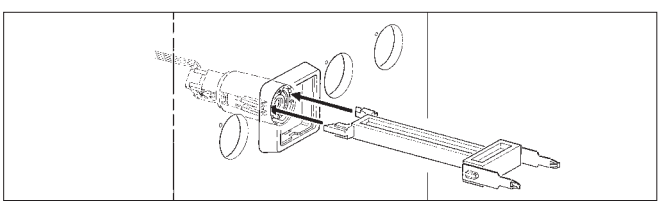
Click-Version from front (only for pushbuttons and signal lamps with special tool for dismounting)



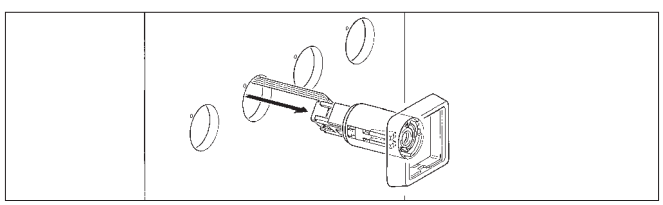
1. Grip body/lens



2. Pull out body/lens



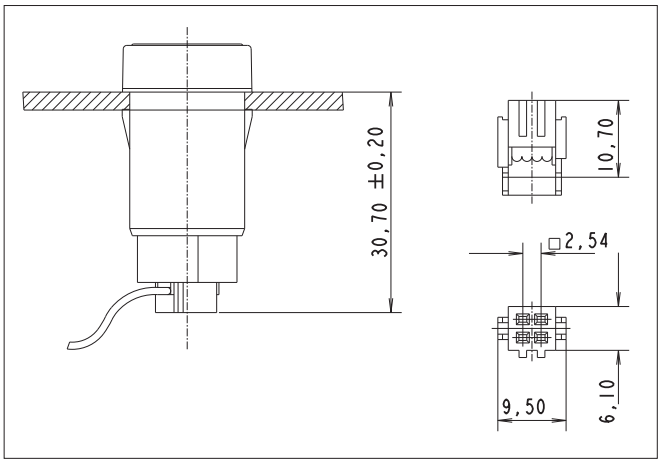
3. Release click lever



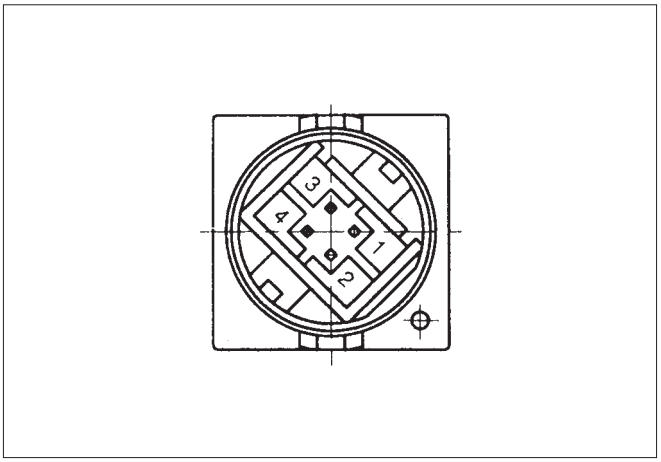
4. Pull out pushbutton/signal lamp with cable

Dimensional drawing

With quick connector and flat-ribbon cable

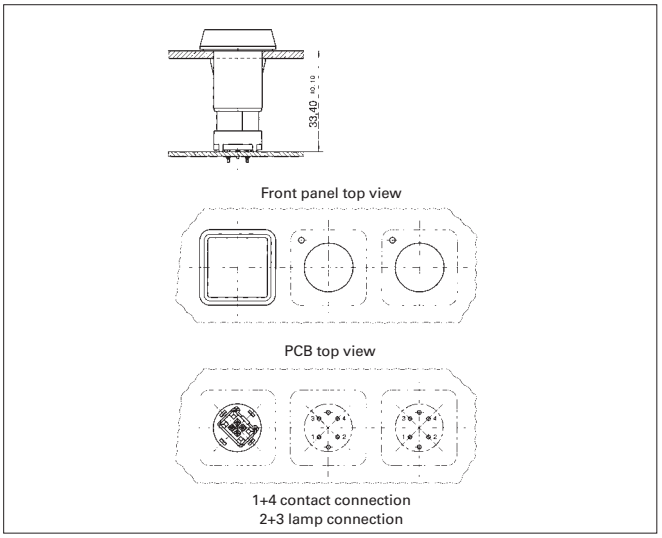


Connection diagram (PCB top view)

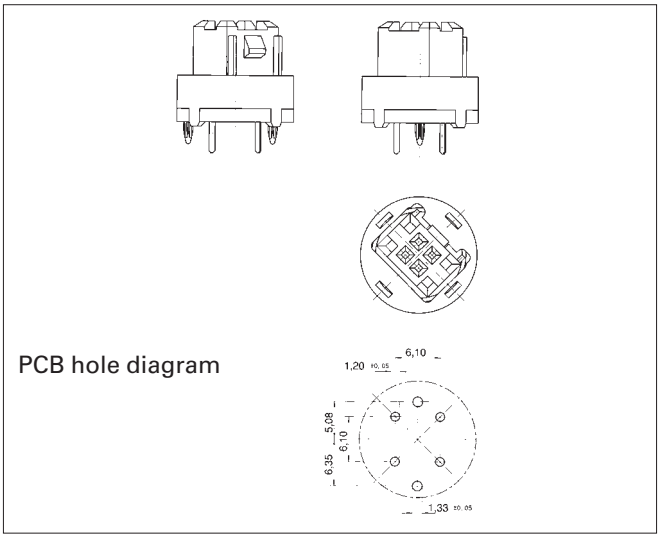


1 + 4 = pushbutton connection 2 + 3 = lamp connection

With plug-in socket



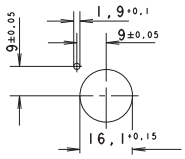
Plug-in socket for PCB



LUMOTAST 25 - Illuminated pushbutton

Pict.: with colourless lens

with blue lens



Panel cut-out

Technical Data

General information

Form of lens	see order block
Colour of lens	see order block
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	7.1 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	momentary
Contact arrangement	1 NO
Contact materials	Au
Illumination	yes
Lamp socket	Bi-Pin T1 / T1¼

Mechanical characteristics

Operating force max.	6 N
Operating travel	3 mm
Switching travel	2 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

Operating life (operations)	1,000,000
Degree of protection from front side	IP65
Ambient temp. operating max. without lamp /LED	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating min. with lamp /LED	-25 °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	7 g

Typical accessories LUMOTAST 25 - Illuminated pushbutton

Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-Pin T 1¼ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-Pin T 1¼ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-Pin T 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 15
LED Bi-Pin T 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 15

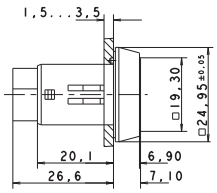
Typical accessories LUMOTAST 25 - Illuminated pushbutton

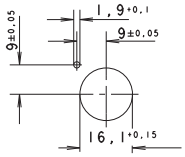
Description	Photo	Order no.	Additional accessories see page
LED Bi-PinT 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 15
LED Bi-PinT 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 15
LED Bi-PinT 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 15
LED Bi-PinT 1, red, 3 V		**1.90.691.026/0000**	5 - 15
LED Bi-PinT 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-PinT 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Disassembly tool for LUMOTAST 25, RAFIX 16		**5.05.800.042/0000**	2 - 94
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	2 - 100, 5 - 26
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 96
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Legend insert, blank, use only for transparent lenses		**5.70.635.000/2000**	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

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

LUMOTAST 25 - Illuminated pushbutton with flush lens, „Click“ quick-assembly feature

Pict.: with colourless lens





Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.506/0000**	Please include the desired lens in your order.

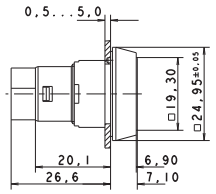
Technical data see page 1 - 22

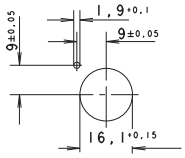
Lenses:
Lens, square, transparent colourless: 5.49.077.011/1002
Lens, square, transparent red: 5.49.077.011/1306
Lens, square, transparent yellow: 5.49.077.011/1403
Lens, square, transparent green: 5.49.077.011/1505
Lens, square, transparent blue: 5.49.077.011/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 - Illuminated pushbutton with flush lens, ring nut fixing

Pict.: with green lens





Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.556/0000**	Please include the desired lens in your order.

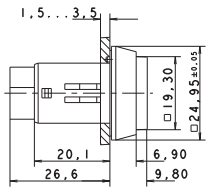
Technical data see page 1 - 22

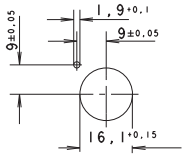
Lenses:
Lens, square, transparent colourless: 5.49.077.011/1002
Lens, square, transparent red: 5.49.077.011/1306
Lens, square, transparent yellow: 5.49.077.011/1403
Lens, square, transparent green: 5.49.077.011/1505
Lens, square, transparent blue: 5.49.077.011/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 - Illuminated pushbutton with protruding lens, „Click“ quick-assembly feature

Pict.: with red lens





Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.606/0000**	Please include the desired lens in your order.

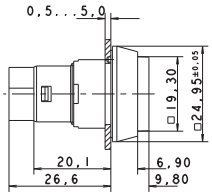
Technical data see page 1 - 22

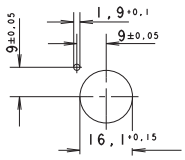
Lenses:
Lens, square, transparent colourless: 5.49.077.012/1002
Lens, square, transparent red: 5.49.077.012/1306
Lens, square, transparent yellow: 5.49.077.012/1403
Lens, square, transparent green: 5.49.077.012/1505
Lens, square, transparent blue: 5.49.077.012/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 - Illuminated pushbutton with protruding lens, ring nut fixing

Pict.: with blue lens





Panel cut-out

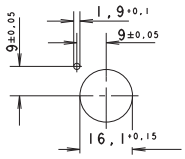
Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.656/0000**	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: 5.49.077.012/1002
Lens, square, transparent red: 5.49.077.012/1306
Lens, square, transparent yellow: 5.49.077.012/1403
Lens, square, transparent green: 5.49.077.012/1505
Lens, square, transparent blue: 5.49.077.012/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 - Selector switch



Panel cut-out

Technical Data

General information

Actuator	handle
Colour of handle	black opaque
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	17 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	see order block
Contact arrangement	1 NO
Contact materials	Au
Illumination	no

Mechanical characteristics

Operating force min.	0.03 Nm
Rotating angle	see order block
Robustness max.	1.5 N

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

Operating life (operations)	500,000
Degree of protection from front side	IP65
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	8 g

Typical accessories LUMOTAST 25 - Selector switch

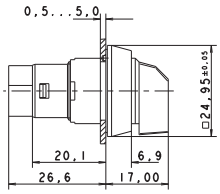
Description	Photo	Order no.	Additional accessories see page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	2 - 100, 5 - 26
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 96
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23

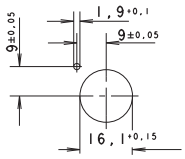
Stock items are marked by **bold printed order numbers.**

Typical accessories LUMOTAST 25 - Selector switch

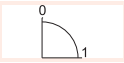
Description	Photo	Order no.	Additional accessories see page
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST 25 - Selector switch, ring nut fixing



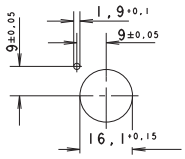


Panel cut-out

Contact arrangement	Contact function	Rotating angle	Actuator	Order no.
1 NO	latching	right, 1 x 90° 	handle	1.15.153.106/0100

Technical data see page 1 - 26

LUMOTAST 25 - Keylock switch



Panel cut-out

Technical Data

General information

Colour of lens	black opaque
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	32.3 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	latching
Contact arrangement	1 NO
Contact materials	Au
Illumination	no
Lamp socket	no
Lock	cylinder lock
Wafers	8 pins
Lock type	5201
Number of locking positions	10,000
Main key	yes
Symmetric key	yes
Key removal position	see order block

Mechanical characteristics

Operating force max.	1.5 N
Rotating angle	90°

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

Operating life (operations)	50,000
Degree of protection from front side	IP65
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	20 g

Typical accessories LUMOTAST 25 - Keylock switch

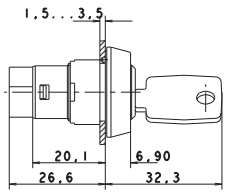
Description	Photo	Order no.	Additional accessories see page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	2 - 100, 5 - 26

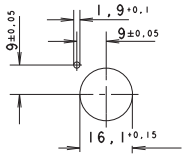
Stock items are marked by **bold printed order numbers.**

Typical accessories LUMOTAST 25 - Keylock switch

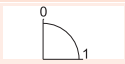
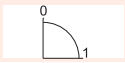
Description	Photo	Order no.	Additional accessories see page
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 96
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Spare key set (2 keys)		5.58.015.201/0000	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST 25 - Keylock switch





Panel cut-out

Contact arrangement	Contact function	Rotating angle	Key removal position		Colour of lens	Order no.
1 NO	latching	90°	0		black opaque	**1.15.156.001/0000**
1 NO	latching	90°	0 + 1		black opaque	**1.15.156.011/0000**

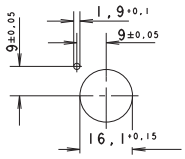
Technical data see page 1 - 28

Included: 2 keys.

LUMOTAST 25 - Emergency stop pushbutton

Pict.: yellow collar

black collar



Panel cut-out

Technical Data

General information

Colour of lens	opaque red
Form of collar	square
Colour of collar	see order block

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	18.5 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	latching
Contact arrangement	2 NC (forcibly actuated)
Contact materials	Au
Illumination	no
Reset	by pulling

Mechanical characteristics

Operating force max.	10 N
Operating travel	2.6 mm
Switching travel	2 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC/DC max.	25 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA (1A short-circuit current)
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	10 ms

Other specifications

Operating life (operations)	15,000
Degree of protection from front side	IP65
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	9 g

Approvals

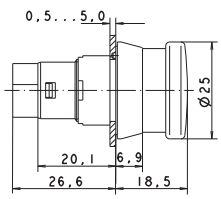
IEC 60947-5-x, 60904, 60073

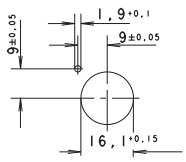
UL 508

Typical accessories LUMOTAST 25 - Emergency stop pushbutton

Description	Photo	Order no.	Additional accessories see page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	2 - 100, 5 - 26
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 96
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	
Adhesive label yellow, round 16.1 / 60 mm, without legend		5.76.204.425/0400	
Adhesive label yellow, round 16.1 / 60 mm, with legend „Not-Aus“		5.76.204.426/0400	
Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRET-D'URGENCE“		5.76.204.427/0400	
Adhesive label yellow, round 16.1 / 60 mm, with legend „EMERGENCY-STOP“		5.76.204.428/0400	
Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRESTO-D'EMERGENZA“		5.76.204.429/0400	
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST 25 - Emergency stop pushbutton, ring nut fixing





Panel cut-out

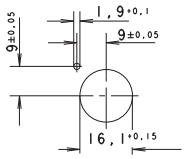
Contact function	Contact arrangement	Colour of collar	Order no. complete	Order no. single parts	
				Housing	Lens
latching	2 NC (forcibly actuated)	black	**1.15.154.006/0301**	-	-
latching	2 NC (forcibly actuated)	yellow	**1.15.154.016/0301**	-	-

Technical data see page 1 - 30

LUMOTAST 25 - Signal lamp

Pict.: with red lens

with blue lens



Panel cut-out

Technical Data

General information

Form of lens	square
Colour of lens	see order block

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	9.8 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Lamp socket	see order block
Lamp	filament lamp / LED

Electrical characteristics

Voltage limit max.	24 V
Power limit max.	0.7 W

Other specifications

Degree of protection from front side	IP65
Weight	7 g
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C

Typical accessories LUMOTAST 25 - Signal lamp

Description	Photo	Order no.	Additional accessories see page
Filament lamp, Bi-PinT 1¼ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-PinT 1¼ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-PinT 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 15
LED Bi-PinT 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 15
LED Bi-PinT 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 15
LED Bi-PinT 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 15
LED Bi-PinT 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 15
LED Bi-PinT 1, red, 3 V		**1.90.691.026/0000**	5 - 15

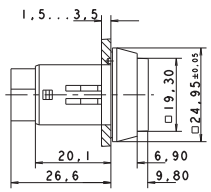
Stock items are marked by **bold printed order numbers.**

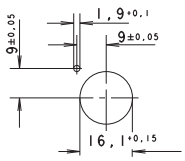
Typical accessories LUMOTAST 25 - Signal lamp

Description	Photo	Order no.	Additional accessories see page
LED Bi-Pin T 1, green, 3 V		**1.90.691.027/0000**	5 - 15
LED Bi-Pin T 1, yellow, 3 V		**1.90.691.028/0000**	5 - 15
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 23
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 22
Disassembly tool for LUMOTAST 25, RAFIX 16		**5.05.800.042/0000**	2 - 94
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	2 - 100, 5 - 26
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 96
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Legend insert, blank, use only for transparent lenses		**5.70.635.000/2000**	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 22

LUMOTAST 25 - Signal lamp, 24 V, „Click“ quick-assembly feature

Pict.: with red lens





Panel cut-out

Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.7 W	Bi-Pin T 1/T 1¼	1.65.122.906/0000	Please include the desired lens in your order.

Technical data see page 1 - 32

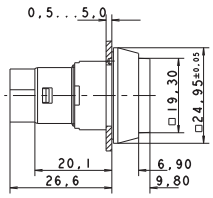
Lenses:
Lens, square, transparent colourless: 5.49.077.014/1002
Lens, square, transparent red: 5.49.077.014/1306
Lens, square, transparent yellow: 5.49.077.014/1403
Lens, square, transparent green: 5.49.077.014/1505
Lens, square, transparent blue: 5.49.077.014/1607

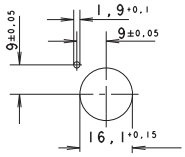
Do not press in lens in disassembled condition.
Note when using a LED: A notch on the lamp identifies the cathode side.

1

LUMOTAST 25 - Signal lamp, 24 V, ring nut fixing

Pict.: with blue lens





Panel cut-out

Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.7 W	Bi-Pin T 1/T 1¼	1.65.122.956/0000	Please include the desired lens in your order.

LUMO 25

Technical data see page 1 - 32

Lenses:
Lens, square, transparent colourless: 5.49.077.014/1002
Lens, square, transparent red: 5.49.077.014/1306
Lens, square, transparent yellow: 5.49.077.014/1403
Lens, square, transparent green: 5.49.077.014/1505
Lens, square, transparent blue: 5.49.077.014/1607

Do not press in lens in disassembled condition.
Note when using LED: A notch on the lamp socket identifies the cathode side.

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

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

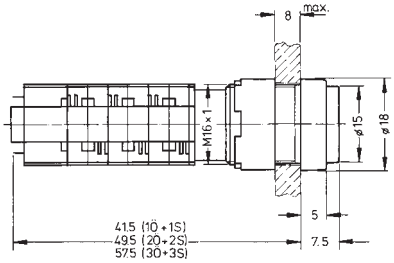
LUMOTAST 75 IP40 - Illuminated pushbutton **1 - 36**
LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, round collar 1 - 38
LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, square collar 1 - 39
LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, rectangular collar 1 - 40
LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, square collar 1 - 41

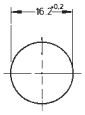
LUMOTAST 75 IP40 - Keylock switch **1 - 42**
LUMOTAST 75 IP40 - Keylock switch, round collar 1 - 43
LUMOTAST 75 IP40 - Keylock switch, rectangular collar 1 - 44

LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5 **1 - 46**
LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5, round collar, protruding lens 1 - 48
LUMOTAST 75 IP40 - Signal lamp, square collar, flush lens 1 - 48
LUMOTAST 75 IP40 - Signal lamp, rectangular collar, flush lens 1 - 49
LUMOTAST 75 IP40 - Signal lamp, square collar, protruding lens 1 - 49

1

LUMOTAST 75 IP40 - Illuminated pushbutton





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	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

Typical accessories LUMOTAST 75 IP40 - Illuminated pushbutton

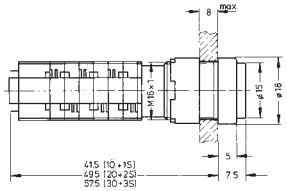
Description	Photo	Order no.	Additional accessories see page
Filament lamp, T 4.5 base, 12 V		**1.90.100.022/0000**	5 - 6
Filament lamp, T 4.5 base, 24 V		**1.90.100.023/0000**	5 - 6
LED T 4.5 superbright, red, 24 V		**1.90.690.331/0000**	5 - 16
LED T 4.5 superbright, green, 24 V		**1.90.690.332/0000**	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

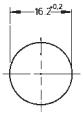
Stock items are marked by **bold printed order numbers.**

1

LUMO 75 (40)

LUMOTAST 75 IP40 - 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	**1.15.108.451/0000**	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.

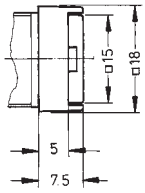
Technical data see page 1 - 36

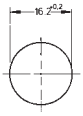
Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**
Lens, round, transparent red, for LED: **5.49.257.011/1301**
Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**
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.**

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





Mounting hole

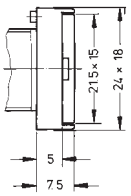
Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.251/0000**	Please include the desired lens and diffuser in your order.
1 NC + 1 NO	latching	black	**1.15.108.351/0000**	Please include the desired lens and diffuser in your order.
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.

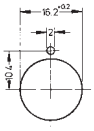
Technical data see page 1 - 36

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**

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





Panel cut-out

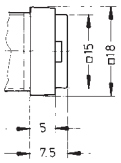
Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.051/0000**	Please include the desired lens and diffuser in your order.
1 NC + 1 NO	latching	black	**1.15.108.151/0000**	Please include the desired lens and diffuser in your order.
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.

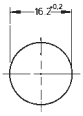
Technical data see page 1 - 36

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**

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.

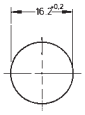
Technical data see page 1 - 36

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**

1

LUMOTAST 75 IP40 - Keylock switch



Mounting hole

Technical Data

LUMO 75 (40)

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

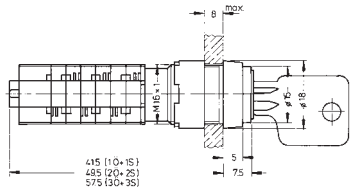
Approvals

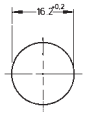
UL 508 C22.2 No. 14-M91

Typical accessories LUMOTAST 75 IP40 - Keylock switch

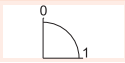
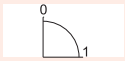
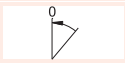
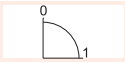
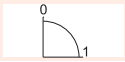
Description	Photo	Order no.	Additional accessories see page
Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm		5.52.006.021/0100	5 - 26
Blanking cap, black, to cover spare holes, round 18 mm		5.52.006.022/0100	5 - 26
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21
Keylock switch cap		5.58.002.030/0000	
LUMOTAST 75 - Spare key (1 piece)		5.58.004.721/0000	

LUMOTAST 75 IP40 - Keylock switch, round collar





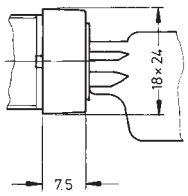
Mounting hole

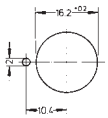
Contact arrangement	Contact function	Rotating angle	Key removal position	Colour of collar	Order no.
1 NC + 1 NO	latching	90°	0 	black	1.15.108.851/0000
1 NC + 1 NO	latching	90°	0+1 	black	1.15.108.911/0000
1 NC + 1 NO	momentary	45°	0 	black	1.15.108.941/0000
2 NC + 2 NO	latching	90°	0 	black	1.15.108.852/0000
2 NC + 2 NO	latching	90°	0+1 	black	1.15.108.912/0000

Technical data see page 1 - 42

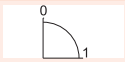
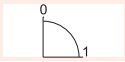
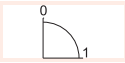
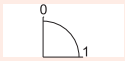
Included: 2 keys.
Other lock variants and contacts available on request.

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

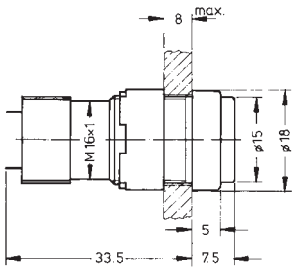
Technical data see page 1 - 42

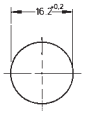
Included: 2 keys.
Other lock variants and contacts available on request.

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

LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

Pict.: with blue lens





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	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.**

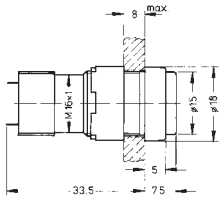
Typical accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

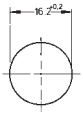
Description	Photo	Order no.	Additional accessories see page
LEDT 4.5 superbright, green, 24 V		**1.90.690.332/0000**	5 - 16
LEDT 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 16
LEDT 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 16
LEDT 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 16
LEDT 4.5, red, 2-3 V (use external resistor)		**1.90.692.001/0000**	5 - 16
LEDT 4.5, green, 2-3 V (use external resistor)		**1.90.692.002/0000**	5 - 16
LEDT 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

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

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.

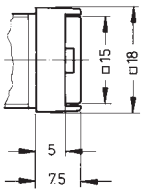
Technical data see page 1 - 46

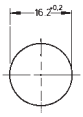
Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**
Lens, round, transparent red, for LED: **5.49.257.011/1301**
Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**
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.

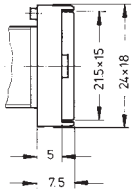
Technical data see page 1 - 46

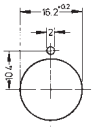
Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**
Lens, square, transparent red, for LED: **5.49.275.036/1301**
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**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

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.

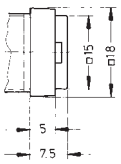
Technical data see page 1 - 46

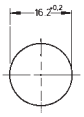
Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.275.032/1002**
Lens, rectangular, transparent red, for LED: **5.49.275.032/1301**
Lens, rectangular, transparent red, for filament lamp: **5.49.275.032/1303**
Lens, rectangular, transparent yellow, for filament lamp or 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**

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**

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 mm^2 max.
  - Factory terminated 0.35 mm^2 max.
- 250 V/4 A max.
- 2 NC + 2 NO max. (3 NC + 3 NO on request)

Content

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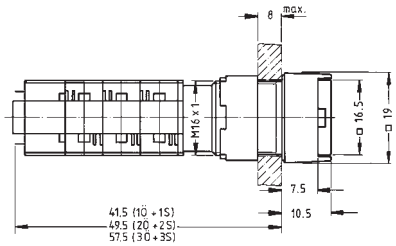
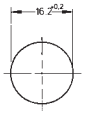
LUMOTAST 75 IP65 - Illuminated pushbutton





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 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

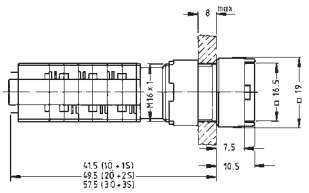
UL 508 C22.2 No. 14-M91

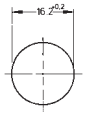
Typical accessories LUMOTAST 75 IP65 - Illuminated pushbutton

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

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

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





Mounting hole

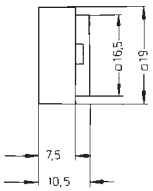
Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.276/0000**	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	**1.15.108.376/0000**	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black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

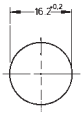
Technical data see page 1 - 52

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**

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





Mounting hole

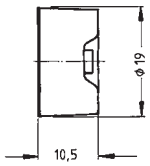
Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	1.15.108.281/0000	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	1.15.108.381/0000	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black	1.15.108.282/0000	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.

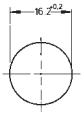
Technical data see page 1 - 52

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, 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.

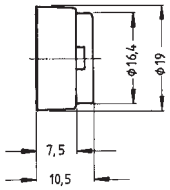
Technical data see page 1 - 52

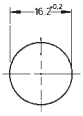
Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**
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.**

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





Mounting hole

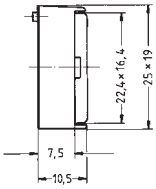
Contact arrangement	Contact function	Colour of collar	Order no. without lens	Note
1 NC + 1 NO	momentary	black	**1.15.108.476/0000**	Please include the desired lens in your order.
1 NC + 1 NO	latching	black	**1.15.108.976/0000**	Please include the desired lens in your order.
2 NC + 2 NO	momentary	black	**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.

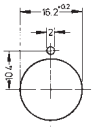
Technical data see page 1 - 52

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, 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.

Technical data see page 1 - 52

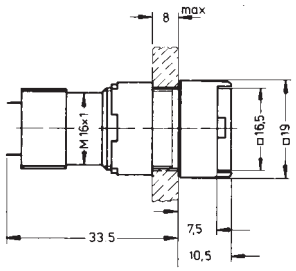
Lenses:
Lens, rectangular, transparent colourless, for filament lamp or LED: 5.49.277.058/1002
Lens, rectangular, transparent red, for LED: 5.49.277.058/1301
Lens, rectangular, transparent red, for filament lamp: 5.49.277.058/1303
Lens, rectangular, transparent yellow, for filament lamp or LED: 5.49.277.058/1402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

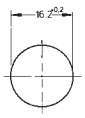
Accessoires:
Legend insert, rectangular without legend: 5.70.630.000/2000

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

LUMOTAST 75 IP65 - Signal lamp

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.	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

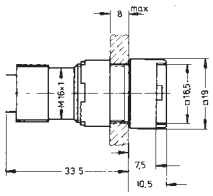
Typical accessories LUMOTAST 75 IP65 - Signal lamp

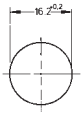
Description	Photo	Order no.	Additional accessories see page
LEDT 4.5 superbright, yellow, 24 V		**1.90.690.333/0000**	5 - 16
LEDT 4.5 superbright, blue, 24 V		**1.90.690.334/0000**	5 - 16
LEDT 4.5 superbright, white, 24 V		**1.90.690.335/0000**	5 - 16
LEDT 4.5, red, 2-3 V (use external resistor)		**1.90.692.001/0000**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

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

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

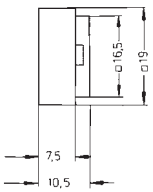
Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**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

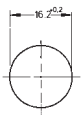
Accessoires:
Legend insert, square, without legend: **5.70.629.000/2000**

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

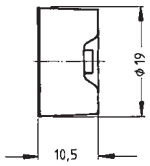
Lenses:
Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
Lens, square, transparent red, for LED: **5.49.277.052/1301**
Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**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

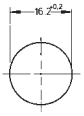
Accessoires:
Legend insert, square, without legend: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

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

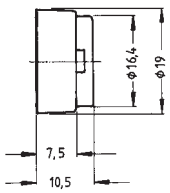
Lenses:
Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**
Lens, round, transparent red, for LED: **5.49.259.013/1301**
Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**
Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**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

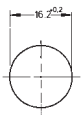
Accessoires:
Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

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**

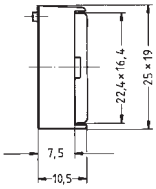
Accessoires:
Legend insert, round, without legend: **5.70.059.000/2000**

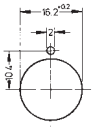
For assembly, press the lens as far as possible.

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

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

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

For assembly, press the lens as far as possible.

General Data

Keylock switch for a mounting hole diameter of 16.2 mm
- 35 V max.
- 100 mA
- Design matches with LUMOTAST FK and LUMOTAST 75 IP40.

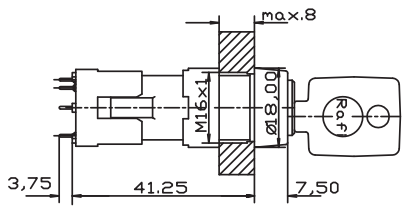
Content

Keylock switch **1 - 66**
Keylock switch - round collar 1 - 67
Keylock switch - rectangular collar 1 - 67

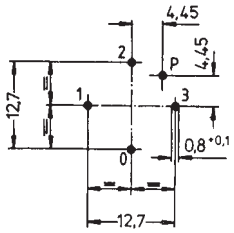
Priority keylock switch **1 - 68**
Priority keylock switch - round collar 1 - 69
Priority keylock switch - rectangular collar 1 - 69

1

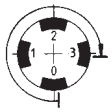
Keylock switch



Pict.: with plug-in socket



PCB footprint



Technical Data

General information

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	7.5 mm
Mounting depth	39.5 mm; with plug-in socket 41.25 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Contact system	sliding contact, self cleaning
Contact function	latching
Contact arrangement	1 NO at every switching position
Contact materials	Au alloy
Illumination	no

Mechanical design of lock

Lock	cylinder lock with pin tumblers
Wafers	5 pins
Lock type	5001
Number of locking positions	10,000
Main key	on request
Symmetric key	on request
Key removal position	see order block

Mechanical characteristics

Torque against stop max.	0.035 Nm
Torque against stop max.	1.8 Nm

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	5 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	5 mA
ESD strength max.	12 kV
Insulation resistance	6 x 10^8 Ω
Contact resistance max.	200 mΩ

Other specifications

Operating life (operations)	50,000
Degree of protection from front side	IP65
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
Soldering temperature max.	350 °C
Weight	29 g
Soldering time max.	3 s
Rotating angle	see order block

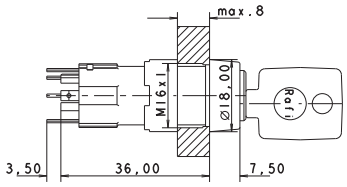
Typical accessories Keylock switch

Description	Photo	Order no.	Additional accessories see page
Plug-in socket for PCB mounting		5.05.510.298/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

Typical accessories Keylock switch

Description	Photo	Order no.	Additional accessories see page
Spare key (1 piece)		5.58.011.001/0000	

Keylock switch - round collar



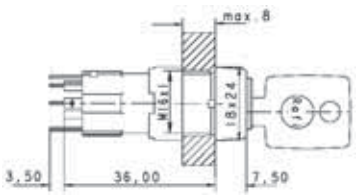
Panel cut-out

Contact arrangement	Contact function	Rotating angle		Key removal position	Order no.
1 NO at every switching position	latching	1 x 90°		0+1	1.10.118.612/0000
1 NO at every switching position	latching	2 x 90°		0	1.10.118.513/0000
1 NO at every switching position	latching	2 x 90°		0+1+2	1.10.118.713/0000
1 NO at every switching position	latching	3 x 90°		0+1+2+3	1.10.118.814/0000

Technical data see page 1 - 66

Included: 2 keys.

Keylock switch - rectangular collar



Panel cut-out

Contact arrangement	Contact function	Rotating angle		Key removal position	Order no.
1 NO at every switching position	latching	1 x 90°		0+1	1.10.118.212/0000
1 NO at every switching position	latching	2 x 90°		0+1+2	1.10.118.313/0000
1 NO at every switching position	latching	3 x 90°		0+1+2+3	1.10.118.414/0000

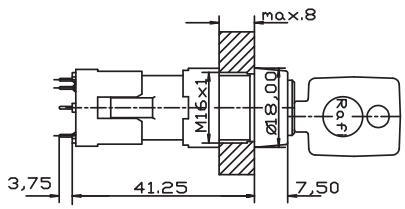
Technical data see page 1 - 66

Included: 2 keys.

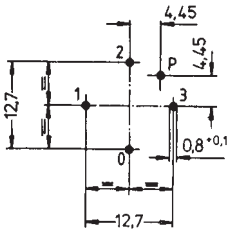
1

Key Switches

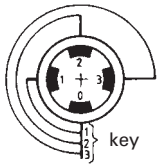
Priority keylock switch



Pict.: with plug-in socket



PCB footprint



Technical Data

General information

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	7.5 mm
Mounting depth	39.5 mm; with plug-in socket 41.25 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Contact system	sliding contact, self cleaning
Contact function	latching
Contact arrangement	1 NO at every switching position
Contact materials	Au alloy
Illumination	no

Mechanical design of lock

Lock	cylinder lock with pin tumblers
Wafers	5 pins
Lock type	5001
Number of locking positions	10,000
Main key	yes
Symmetric key	yes
Key removal position	see order block

Mechanical characteristics

Torque against stop max.	0.035 Nm
Torque against stop max.	1.8 Nm

Electrical characteristics

Rated voltage AC/DC max.	35 V
Rated voltage AC/DC min.	5 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	5 mA
ESD strength max.	12 kV
Insulation resistance	6 x 10^8 Ω
Contact resistance max.	200 mΩ

Other specifications

Operating life (operations)	50,000
Degree of protection from front side	IP65
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
Soldering temperature max.	350 °C
Weight	29 g
Soldering time max.	3 s
Rotating angle	see order block

Typical accessories Priority keylock switch

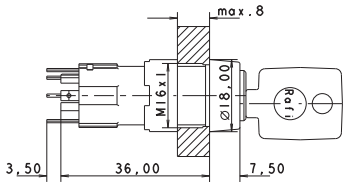
Description	Photo	Order no.	Additional accessories see page
Plug-in socket for PCB mounting		5.05.510.298/0000	5 - 23
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

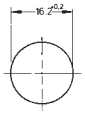
Stock items are marked by **bold printed order numbers.**

Typical accessories Priority keylock switch

Description	Photo	Order no.	Additional accessories see page
Set of spare keys (3 keys) for 3 x 90° type		5.58.099.010/0000	
Set of spare keys (2 keys) for 2 x 90° type		5.58.099.011/0000	

Priority keylock switch - round collar





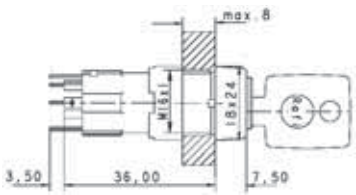
Mounting hole

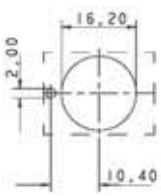
Contact arrangement	Contact function	Rotating angle	Key removal position	Order no.
1 NO at every switching position	latching	2 x 90°	0	**1.10.119.611/0000**
1 NO at every switching position	latching	3 x 90°	0	**1.10.119.617/0000**
1 NO at every switching position	latching	3 x 90°	0+1+2+3	**1.10.119.967/0000**

Technical data see page 1 - 68

Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.
Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...

Priority keylock switch - rectangular collar





Panel cut-out

Contact arrangement	Contact function	Rotating angle	Key removal position	Order no.
1 NO at every switching position	latching	2 x 90°	0	**1.10.119.111/0000**
1 NO at every switching position	latching	3 x 90°	0	**1.10.119.117/0000**
1 NO at every switching position	latching	3 x 90°	0+1+2+3	**1.10.119.467/0000**

Technical data see page 1 - 68

Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.
Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...

General Data

Various pushbuttons for mounting hole diameters from 9.1 mm to 20.3 mm.

Content

Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA **1 - 72**
Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/0.1 A 1 - 73

Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A **1 - 74**
Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A 1 - 75

Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A **1 - 76**
Pushbutton opaque - mounting hole diameter 15.2 mm 1 - 77

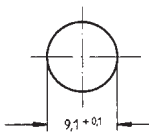
Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A **1 - 78**
Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A 1 - 79

Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A **1 - 80**
Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A 1 - 81

Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A **1 - 82**
Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A 1 - 83

Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA

Pict.: white lens



Panel cut-out

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	11 mm
Overall height	4.5 mm
Mounting depth	25.5 mm
Mounting hole	9.1 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Contact system	bridge contact
Contact function	momentary
Contact arrangement	1 NO
Contact materials	Ag
Illumination	no
Lamp socket	no

Mechanical characteristics

Operating force max.	7 N
Operating travel	2 mm
Switching travel NO	1.3 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC max.	24 V
Rated voltage DC max.	24 V
Rated current max.	0.1 A
Contact resistance max.	200 mΩ

Other specifications

Operating life (operations)	40,000
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	2 g
Soldering time max.	3 s
Soldering temperature max.	350 °C

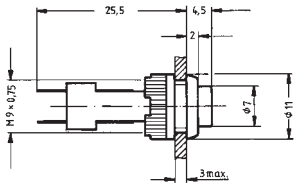
Typical accessories Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA

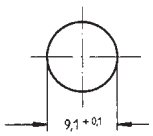
Description	Photo	Order no.	Additional accessories see page
Fixing spanner M 9, M 10		**5.58.002.025/0105**	5 - 21

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

Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/0.1 A

Pict.: white lens





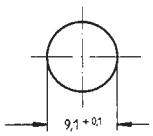
Panel cut-out

Contact arrangement	Contact function	Illumination	Rated voltage DC max.	Colour of lens	Order no.
1 NO	momentary	no	24 V	opaque black	**1.10.107.011/0104**
1 NO	momentary	no	24 V	opaque white	**1.10.107.011/0205**
1 NO	momentary	no	24 V	opaque red	**1.10.107.011/0301**
1 NO	momentary	no	24 V	opaque yellow	**1.10.107.011/0404**
1 NO	momentary	no	24 V	opaque green	**1.10.107.011/0507**

Technical data see page 1 - 72

Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A

Pict.: red



Panel cut-out

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	11 mm
Overall height	7 mm
Mounting depth	25 mm
Mounting hole	9.1 mm

Mechanical design

Mounting	ring nut
Terminals	solder terminals
Contact system	bridge contact
Contact function	momentary
Contact arrangement	1 NC + 1 NO
Contact materials	Au
Illumination	see order block
Lamp socket	no

Mechanical characteristics

Operating force max.	5 N
Operating travel	1.5 mm
Switching travel NC	0.5 mm
Switching travel NO	1 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC/DC max.	24 V
Rated voltage DC max.	24 V
Rated current max.	0.5 A
Contact resistance when new max.	50 mΩ
Contact resistance acc. to life max.	300 mΩ
Bouncing time max.	10 ms
Lamp voltage	see order block

Other specifications

Operating life key switch	200,000
Operating life filament lamp	see order block
Degree of protection from front side	IP40
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 (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
Soldering temperature max.	350 °C
Weight	3 g
Soldering time max.	3 s
LED operating voltage	see order block
LED forward current	see order block
LED forward voltage	see order block
LED reverse voltage	see order block
LED reverse current	see order block
LED power dissipation	see order block
LED series resistor 5-7 V	see order block
LED series resistor 12-14 V	see order block
LED series resistor 24-28 V	see order block

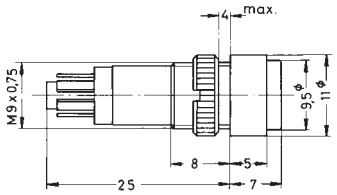
Typical accessories Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A

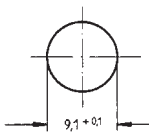
Description	Photo	Order no.	Additional accessories see page
Fixing spanner M 9, M 10		**5.58.002.025/0105**	5 - 21

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

Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A

Pict.: red





Panel cut-out

Contact arrangement	Contact function	Illumination	Lamp voltage	Colour of lens	Order no.
1 NC + 1 NO	momentary	LED super bright white	2 V/10 mA external series resistor	transparent white	**1.15.106.505/1000**
1 NC + 1 NO	momentary	LED super bright red	2 V/10 mA external series resistor	transparent red	**1.15.106.501/1300**
1 NC + 1 NO	momentary	LED super bright yellow	2 V/10 mA external series resistor	transparent yellow	**1.15.106.503/1400**
1 NC + 1 NO	momentary	LED super bright green	2 V/10 mA external series resistor	transparent green	**1.15.106.502/1500**
1 NC + 1 NO	momentary	LED super bright blue	2 V/10 mA external series resistor	transparent blue	**1.15.106.504/1600**
1 NC + 1 NO	momentary	filament lamp	24 V / 0.7 W	transparent colourless	1.15.106.021/1002
1 NC + 1 NO	momentary	filament lamp	24 V / 0.7 W	transparent red	1.15.106.021/1307
1 NC + 1 NO	momentary	filament lamp	24 V / 0.7 W	transparent yellow	1.15.106.021/1403
1 NC + 1 NO	momentary	filament lamp	24 V / 0.7 W	transparent green	1.15.106.021/1510
1 NC + 1 NO	momentary	no	-	opaque black	1.15.106.301/0104
1 NC + 1 NO	momentary	no	-	opaque white	1.15.106.301/0214
1 NC + 1 NO	momentary	no	-	opaque red	1.15.106.301/0313
1 NC + 1 NO	momentary	no	-	opaque yellow	1.15.106.301/0410
1 NC + 1 NO	momentary	no	-	opaque green	1.15.106.301/0518

Technical data see page 1 - 74

Recommended values for external series resistor for LED
- 5 - 7 V = 270 Ω, 0.25 W
- 12 - 14 V = 680 Ω, 0.5 W
- 24 - 28 V = 1500 Ω, 1 W

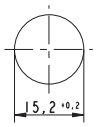
LED forward current: max. 10 mA at T = 25° C
LED forward voltage: 2V at 10 mA
LED reverse voltage: 5 V
LED reverse current: 0,1 mA
LED power dissipation: max. 120 mW at T = 50° C

Please note: connect plus with the LED anode, which is marked with a colour point.

Operating life filamant lamp: approx. 2,000 h.

Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A

Pict.: Screw terminals, red



Panel cut-out

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	19 mm
Overall height	8.2 mm
Mounting depth	21.5 mm
Mounting hole	15.2 mm

Mechanical design

Mounting	ring nut
Terminals	see order block
Contact system	bridge contact
Contact function	momentary
Contact arrangement	see order block
Contact materials	Ag
Illumination	no
Lamp socket	no

Mechanical characteristics

Operating force max.	7.5 N
Operating travel	3 mm
Switching travel NC	1.2 mm
Switching travel NO	2.0 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC max.	250 V
Rated current max.	0.7 A
Contact resistance when new max.	50 mΩ
Contact resistance acc. to life max.	300 mΩ

Other specifications

Operating life (operations)	25,000
Degree of protection from front side	IP40 (IP65 with sealing cap)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+85 °C
Storage temperature min.	-40 °C
Storage temperature max.	+90 °C
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78
Weight	7 g
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

Approvals

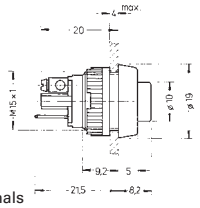
ENEC 25T85

Typical accessories Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A

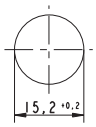
Description	Photo	Order no.	Additional accessories see page
Sealing cap, transparent (IP65)		**5.52.008.115/0000**	
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

Pushbutton opaque - mounting hole diameter 15.2 mm

Pict.: Screw terminals, red



screw terminals



Panel cut-out

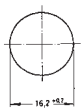
Contact arrangement	Contact function	Terminals	Colour of lens	Order no.
1 NO	momentary	screw terminals	opaque black	**1.10.001.001/0104**
1 NO	momentary	screw terminals	opaque white	**1.10.001.001/0205**
1 NO	momentary	screw terminals	opaque red	**1.10.001.001/0301**
1 NO	momentary	screw terminals	opaque green	**1.10.001.001/0507**
1 NO	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque black	**1.10.001.011/0104**
1 NO	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque white	**1.10.001.011/0205**
1 NO	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque red	**1.10.001.011/0301**
1 NO	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque green	**1.10.001.011/0507**
1 NC	momentary	screw terminals	opaque black	**1.10.001.151/0104**
1 NC	momentary	screw terminals	opaque red	**1.10.001.151/0301**
1 NC	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque black	**1.10.001.161/0104**
1 NC	momentary	solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm	opaque red	**1.10.001.161/0301**

Technical data see page 1 - 76

Quick-connector 6.3 x 0.8 mm. The connector is splitted and also usable for two connectors 2.8 x 0.8 mm.

Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A

Pict.: green



Panel cut-out

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	20 mm
Overall height	9 mm
Mounting depth	41 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	screw terminals
Contact system	bridge contact
Contact function	momentary
Contact arrangement	see order block
Contact materials	Ag
Illumination	no
Lamp socket	no

Mechanical characteristics

Operating force max.	7.5 N
Operating travel	4.3 mm
Switching travel NC	1.3 mm
Switching travel NO	2.2 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC max.	250 V
Rated current max.	2 A
Contact resistance when new max.	100 mΩ

Other specifications

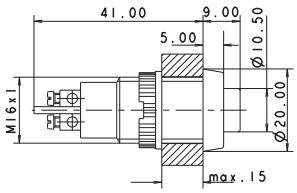
Operating life (operations)	150,000
Degree of protection from front side	IP40 (IP65 with sealing cap)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+85 °C
Storage temperature min.	-40 °C
Storage temperature max.	+90 °C
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78
Weight	11 g
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

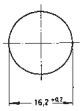
Typical accessories Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A

Description	Photo	Order no.	Additional accessories see page
Sealing cap, black (IP65)		**5.52.008.101/0100**	
Sealing cap, red (IP65)		**5.52.008.101/0300**	
Protective sleeve for terminals		**5.52.011.026/0100**	
Protection against contact to VBG 4		5.55.101.715/0200	5 - 25
Fixing spanner M 15, M 16		5.58.002.019/0105	5 - 21

Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A

Pict.: green





Panel cut-out

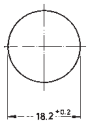
Contact arrangement	Contact function	Illumination	Rated voltage AC max.	Colour of lens	Order no.
1 NO	momentary	no	250 V	opaque black	**1.10.102.001/0104**
1 NO	momentary	no	250 V	opaque white	**1.10.102.001/0205**
1 NO	momentary	no	250 V	opaque red	**1.10.102.001/0301**
1 NO	momentary	no	250 V	opaque green	**1.10.102.001/0507**
1 NC	momentary	no	250 V	opaque black	**1.10.102.011/0104**
1 NC	momentary	no	250 V	opaque red	**1.10.102.011/0301**

Technical data see page 1 - 78

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

Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A

Pict.: green



Mounting hole

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	22 mm
Overall height	10.5 mm
Mounting depth	34 mm
Mounting hole	18.2 mm

Mechanical design

Mounting	ring nut
Terminals	see order block
Contact system	sliding bridge contact
Contact function	momentary
Contact arrangement	see order block
Contact materials	Ag
Illumination	no
Lamp socket	no

Mechanical characteristics

Operating force max.	9.5 N
Operating travel	5 mm
Switching travel NC	2.1 mm
Switching travel NO	3.7 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC max.	250 V
Rated current max.	2 A
Contact resistance acc. to life max.	200 mΩ

Other specifications

Operating life (operations)	50,000
Degree of protection from front side	IP40 (IP65 with sealing cap)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+85 °C
Storage temperature min.	-40 °C
Storage temperature max.	+90 °C
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78
Weight	14 g
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

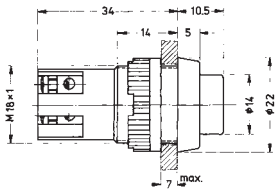
Typical accessories Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A

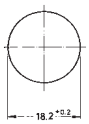
Description	Photo	Order no.	Additional accessories see page
Neoprene sealing cap, black		5.52.008.061/0100	
Silicone sealing cap (IP65)		5.52.008.065/0000	
Protective sleeve for terminals		**5.52.011.028/0100**	
Fixing spanner M 18, M 19		**5.58.002.017/0105**	5 - 21

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

Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A

Pict.: green





Mounting hole

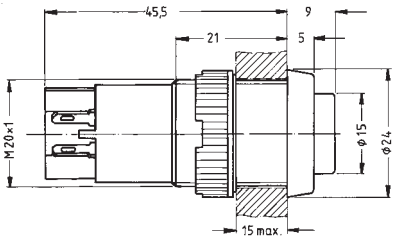
Contact arrangement	Contact function	Illumination	Terminals	Colour of lens	Order no.
2 NO	momentary	no	screw terminals	opaque black	**1.01.102.001/0104**
2 NO	momentary	no	screw terminals	opaque red	**1.01.102.001/0301**
2 NO	momentary	no	screw terminals	opaque green	**1.01.102.001/0507**
1 NC + 1 NO	momentary	no	screw terminals	opaque black	**1.01.102.011/0104**
1 NC + 1 NO	momentary	no	screw terminals	opaque white	**1.01.102.011/0205**
1 NC + 1 NO	momentary	no	screw terminals	opaque red	**1.01.102.011/0301**
1 NC + 1 NO	momentary	no	screw terminals	opaque green	**1.01.102.011/0507**

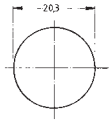
Technical data see page 1 - 80

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

Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

Pict.: with red lens





Mounting hole

Technical Data

General information

Form of lens	protruding lens
Colour of lens	see order block
Form of collar	round

Dimensions

Diameter of collar	24 mm
Overall height	9 mm
Mounting depth	45.5 mm
Mounting hole	20.3 mm

Mechanical design

Mounting	ring nut
Terminals	solder/quick connect terminals 2.8 x 0.8 mm
Contact system	bridge contact
Contact function	momentary
Contact arrangement	see order block
Contact materials	Ag
Illumination	yes
Lamp socket	BA 9 s

Mechanical characteristics

Operating force max.	10 N
Operating travel	3.6 mm
Switching travel NC	0.8 mm
Switching travel NO	2.9 mm
Robustness min.	100 N

Electrical characteristics

Rated voltage AC max.	250 V
Rated current max.	2 A
Contact resistance acc. to life max.	200 mΩ

Other specifications

Operating life (operations)	100,000
Degree of protection from front side	IP40 (IP65 with sealing cap)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+85 °C
Storage temperature min.	-40 °C
Storage temperature max.	+90 °C
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78
Weight	18 g
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes

Typical accessories Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

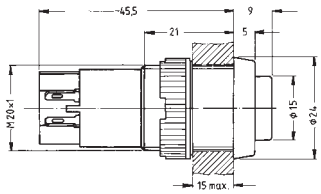
Description	Photo	Order no.	Additional accessories see page
Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V		**1.90.060.003/0000**	5 - 7
Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V		**1.90.060.014/0000**	5 - 7
LED BA 9s (MBC/MCC) superbright, red, 24 V		**1.90.690.341/0000**	5 - 17

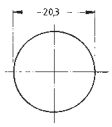
Typical accessories Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

Description	Photo	Order no.	Additional accessories see page
LED BA 9s (MBC/MCC) superbright, green, 24 V		**1.90.690.342/0000**	5 - 17
LED BA 9s (MBC/MCC) superbright, yellow, 24 V		**1.90.690.343/0000**	5 - 17
LED BA 9s (MBC/MCC) superbright, blue, 24 V		**1.90.690.344/0000**	5 - 17
LED BA 9s (MBC/MCC) superbright, white, 24 V		**1.90.690.345/0000**	5 - 17
Silicone sealing cap (IP65)		5.52.008.065/0000	
Protective sleeve for terminals		**5.52.011.030/0100**	
Fixing spanner M 20, M 22, for ring nut		**5.58.002.018/0105**	5 - 21

Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

Pict.: with red lens





Mounting hole

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	1.15.112.101/0000	Please include the desired lens in your order.
momentary	1 NC + 1 NO	1.15.112.121/0000	Please include the desired lens in your order.

Technical data see page 1 - 82

Lenses:
Lens, transparent colourless: 5.49.205.008/1002
Lens, transparent red: 5.49.205.008/1303
Lens, transparent yellow: 5.49.205.008/1402
Lens, transparent green: 5.49.205.008/1502