

1

8 mm

### General data

Illuminable pushbuttons and signal lamps with lamp socket for a mounting hole diameter of 8.1 mm; 42 V, 250 mA max. Please order lamps/LEDs separately.

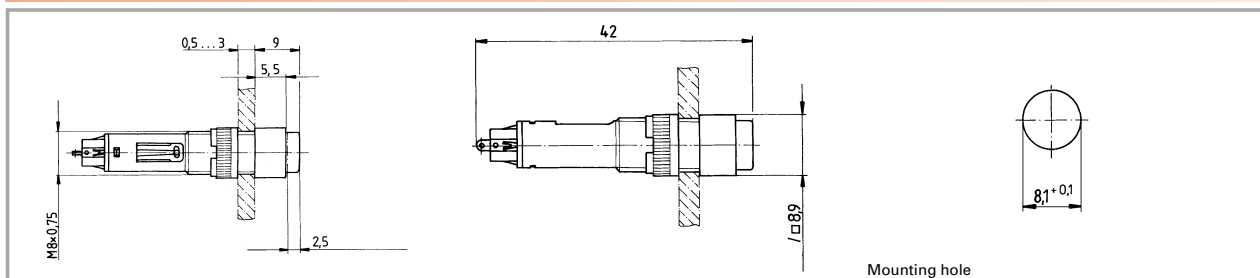
### Content

<b>8 mm series, illuminated pushbutton, 42 V/250 mA</b>	<b>1 - 4</b>
8 mm series, illuminated pushbutton, round collar, 42 V/250 mA	1 - 5
8 mm series, illuminated pushbutton, square collar, 42 V/250 mA	1 - 5
<b>8 mm series, signal lamp</b>	<b>1 - 6</b>
8 mm series, signal lamp, round collar	1 - 7
8 mm series, signal lamp, square collar	1 - 7

1

8 mm

**8 mm series, illuminated pushbutton, 42 V/250 mA**



**Technical data**

**General information**

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

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

**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

**Other specifications**

Operating life (operations) 1000000 (momentary), 100000 (latching)  
Degree of protection from front side IP40  
Ambient temp. operating 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  
Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
Resistance at variable environment according to IEC 600 68-2-14 and 2-33  
Weight 2 g  
Soldering time max. 3 sec.  
Soldering temperature max. 350 °C

**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  
Illuminability 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. 42 V  
Rated voltage AC/DC min. 0.02 V

**Accessories 8 mm series, illuminated pushbutton, 42 V/250 mA**

Description	Photo	Order no.	Page
Filament lamp, Bi-Pin T 1 base, 24 - 28 V		<b>1.90.180.473/0000</b>	5 - 5
LED Bi-Pin T 1, red, 3 V		<b>1.90.691.026/0000</b>	5 - 17
LED Bi-Pin T 1, green, 3 V		<b>1.90.691.027/0000</b>	5 - 17


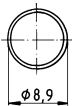
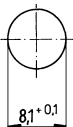
**Accessories 8 mm series, illuminated pushbutton, 42 V/250 mA**

Description	Photo	Order no.	Page
LED Bi-Pin T 1, yellow, 3 V		<b>1.90.691.028/0000</b>	5 - 17
Fixing spanner M 8		<b>5.58.002.027/7705</b>	5 - 23

1

8 mm

**8 mm series, illuminated pushbutton, round collar, 42 V/250 mA**


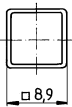
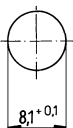
					
Pict.: with colourless lens		Mounting hole			
Contact arrangement	Contact function	Lamp socket	Order no. without lens	Note	
1 NO	momentary	Bi-Pin T 1	<b>1.15.116.001/0000</b>	Please include the desired lens in your order.	
1 NO	latching	Bi-Pin T 1	<b>1.15.116.011/0000</b>	Please include the desired lens 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, 42 V/250 mA**

					
Pict.: with green lens		Mounting hole			
Contact arrangement	Contact function	Lamp socket	Order no. without lens	Note	
1 NO	momentary	Bi-Pin T 1	<b>1.15.116.021/0000</b>	Please include the desired lens in your order.	
1 NO	latching	Bi-Pin T 1	<b>1.15.116.031/0000</b>	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**

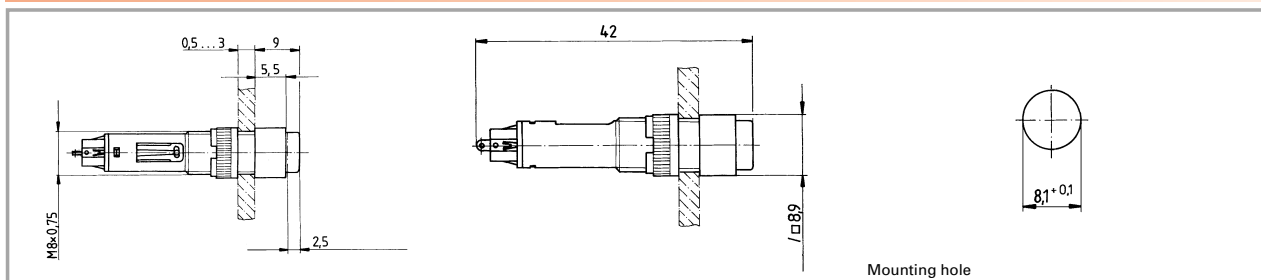
Pushbuttons

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

1

8 mm

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

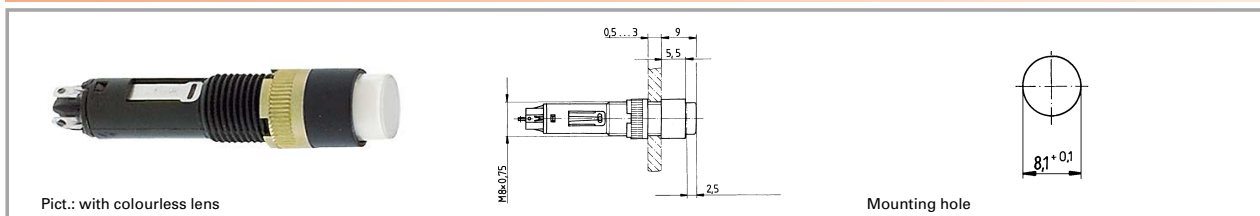
Other specifications

Degree of protection from front side IP40  
 Weight 2 g  
 Ambient temp. operating min. -25 °C  
 Ambient temp. operating max. +55 °C  
 Storage temperature min. -40 °C  
 Storage temperature max. +80 °C  
 Resistance to constant environment according to IEC 600 68-2-3 and 2-30  
 Resistance at variable environment according to IEC 600 68-2-14 and 2-33  
 Soldering time max. 3 sec.  
 Soldering temperature max. 350 °C

Accessories 8 mm series, signal lamp

Description	Photo	Order no.	Page
Filament lamp, Bi-Pin T 1 base, 24 - 28 V		<b>1.90.180.473/0000</b>	5 - 5
LED Bi-Pin T 1, red, 3 V		<b>1.90.691.026/0000</b>	5 - 17
LED Bi-Pin T 1, green, 3 V		<b>1.90.691.027/0000</b>	5 - 17
LED Bi-Pin T 1, yellow, 3 V		<b>1.90.691.028/0000</b>	5 - 17
Fixing spanner M 8		<b>5.58.002.027/7705</b>	5 - 23

**8 mm series, signal lamp, round collar**



Voltage limit max.	Power limit max.	Lamp socket	Colour of lens	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

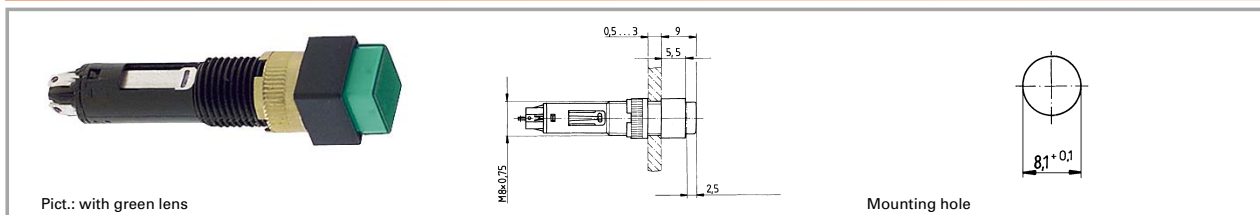
**Lenses:**

- 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

1

8 mm

**8 mm series, signal lamp, square collar**



Voltage limit max.	Power limit max.	Lamp socket	Colour of lens	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