



# 8 mm Series



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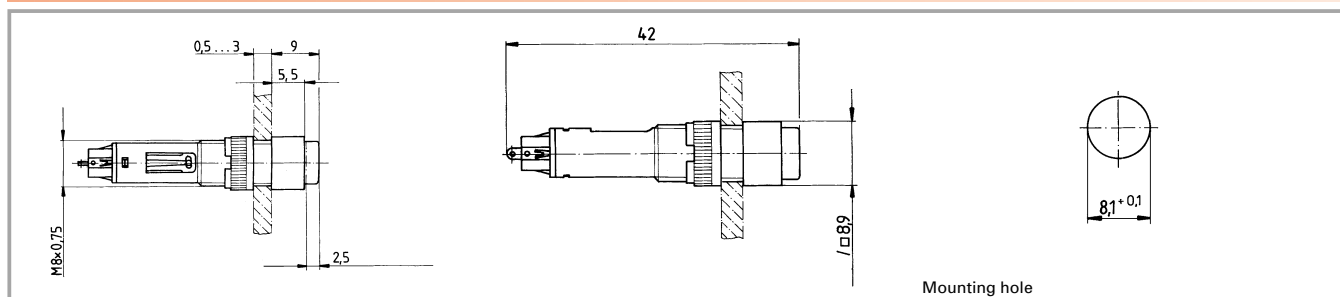
8 mm

## 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

**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

**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, tin-plated
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
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)	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

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


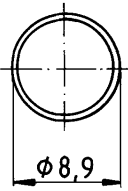
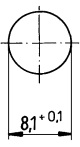
Description	Photo	Order no.	Page
Filament lamp, Bi-Pin T 1 base, 24 - 28 V		<b>1.90.180.473/0000</b>	5 - 5
LED Bi-Pin T 1, red, 3 V		<b>1.90.691.026/0000</b>	5 - 17
LED Bi-Pin T 1, green, 3 V		<b>1.90.691.027/0000</b>	5 - 17

## 8 mm Series

### 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 - 25

### 8 mm Series, illuminated pushbutton, round collar, 42 V/250 mA

<div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: center;">  <p><math>\phi 8,9</math></p> </div> <div style="text-align: center;">  <p><math>8,1^{+0,1}</math></p> </div> </div> <p>Pict.: with colourless lens</p> <p style="text-align: right;">Mounting hole</p>				
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


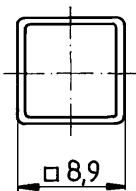
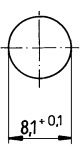
Lens, transparent colourless: **5.05.510.470/1002**

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

<div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: center;">  <p><math>\square 8,9</math></p> </div> <div style="text-align: center;">  <p><math>8,1^{+0,1}</math></p> </div> </div> <p>Pict.: with green lens</p> <p style="text-align: right;">Mounting hole</p>				
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

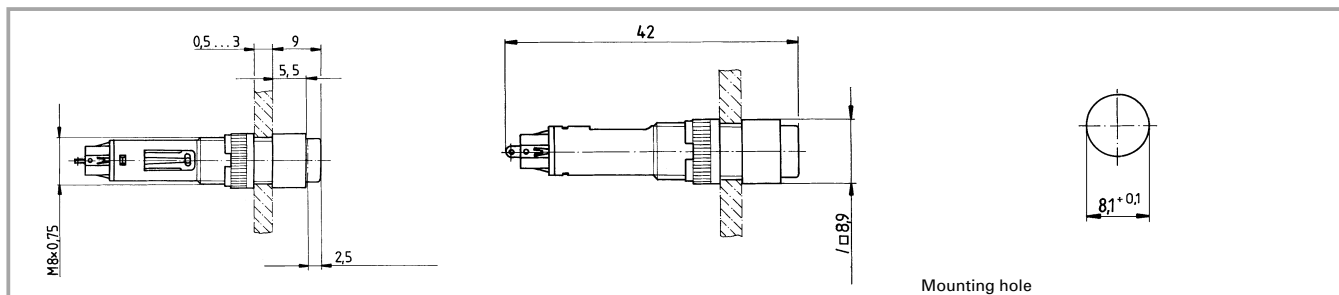
Lens, transparent colourless: **5.05.510.471/1002**

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, tin-plated
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

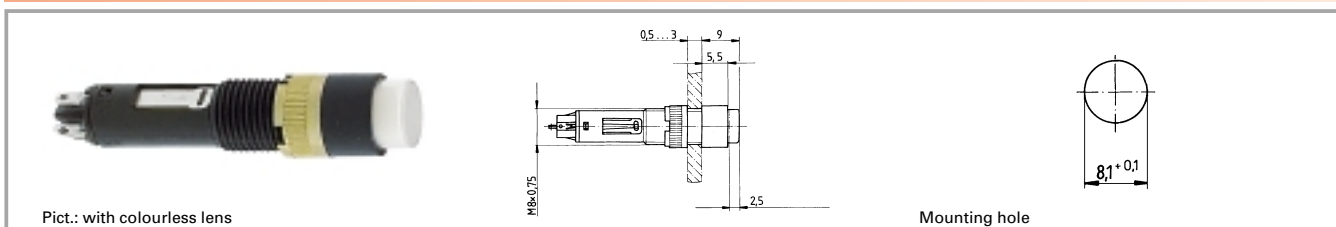
Degree of protection from front side	IP40
Weight	2
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according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

## 8 mm Series

### 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

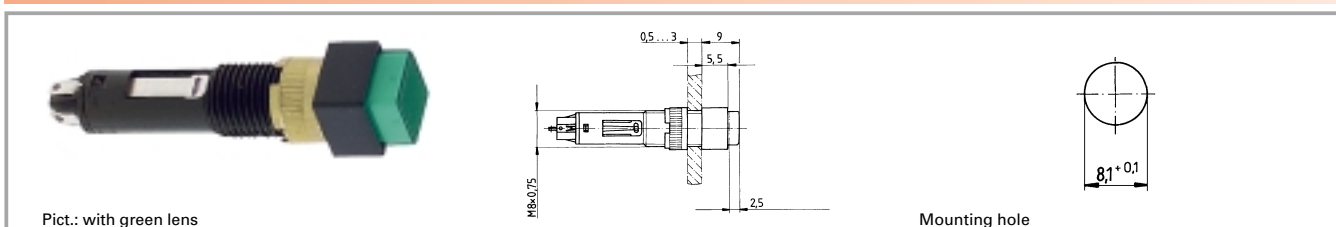
Lens, transparent colourless: 5.05.510.359/1002

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



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

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