General data

Signal lamps with integral filament lamp, neon lamp or neon glow lamp.
For mounting hole diameters from 5 to 14 mm. The mm specification in the product name indicates the appropriate mounting hole diameter of the signal lamps.
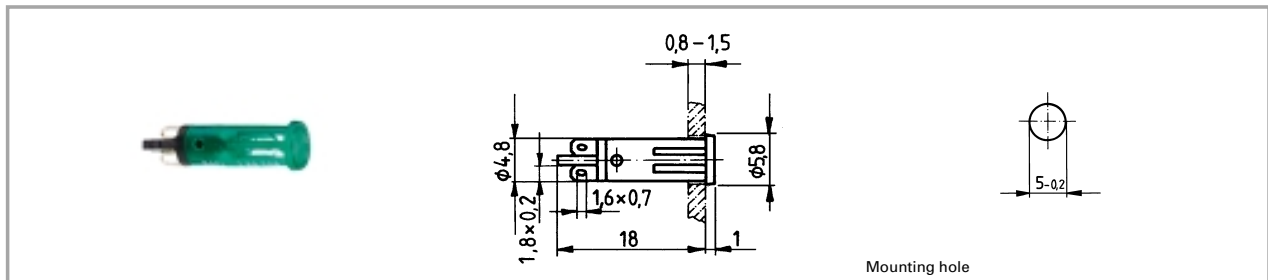
3

Content

Integr. Lamp

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

Signal lamps with integrated filament lamp, 5 mm

Mounting hole

Technical data

General information

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

Dimensions

Length of collar	see order block
Width of collar	see order block
Overall height	1 mm
Mounting depth	18 mm
Mounting hole	5 mm

Mechanical design

Mounting	pressing into hole
Terminals	solder terminals
Lamp socket	no
Lamp	filament lamp

Electrical characteristics

Voltage limit max.	24 V
Power limit max.	0.45 W

Other specifications

Operating life	10000 h
Degree of protection from front side	IP40
Weight	0.3 g

3

Integr. Lamp

Signal lamps with integrated filament lamp, 5 mm, round lens
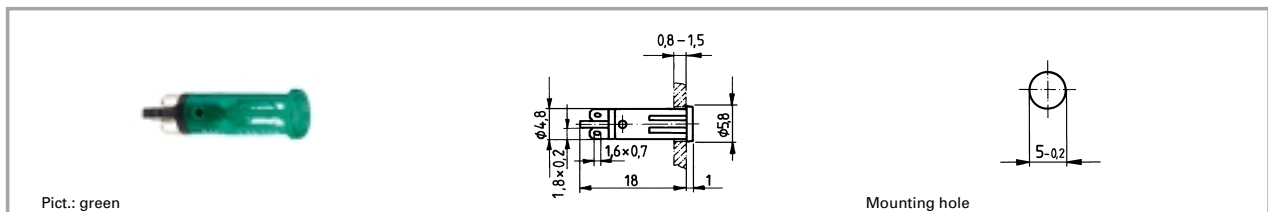
Pict.: green

Mounting hole

Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
24 V	0.45 W	filament lamp	10000 h	transparent colourless	**1.69.508.113/1002**
24 V	0.45 W	filament lamp	10000 h	transparent red	**1.69.508.113/1301**
24 V	0.45 W	filament lamp	10000 h	transparent yellow	**1.69.508.113/1402**
24 V	0.45 W	filament lamp	10000 h	transparent green	**1.69.508.113/1502**
24 V	0.45 W	filament lamp	10000 h	transparent blue	**1.69.508.113/1601**

Technical data see page 3 - 22

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

Signal lamps

Signal lamps with integrated filament lamp, 5 mm, square lens
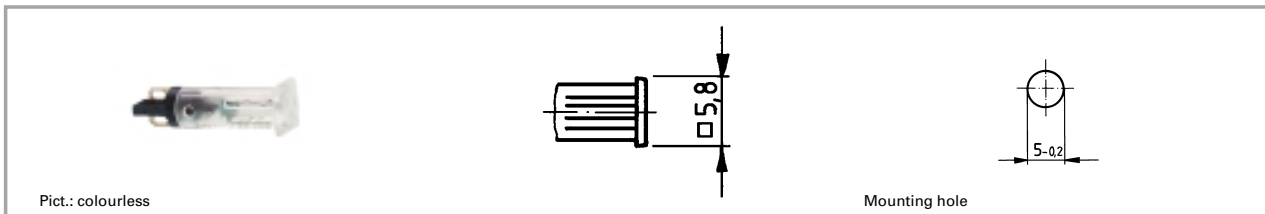
Pict.: colourless

Mounting hole

Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
24 V	0.45 W	filament lamp	10000 h	transparent colourless	1.69.508.103/1002
24 V	0.45 W	filament lamp	10000 h	transparent red	1.69.508.103/1301
24 V	0.45 W	filament lamp	10000 h	transparent yellow	1.69.508.103/1402
24 V	0.45 W	filament lamp	10000 h	transparent green	1.69.508.103/1502
24 V	0.45 W	filament lamp	10000 h	transparent blue	1.69.508.103/1601

Technical data see page 3 - 22

3

Signal lamps with integrated filament lamp, 5 mm, triangular lens

Pict.: blue

Mounting hole

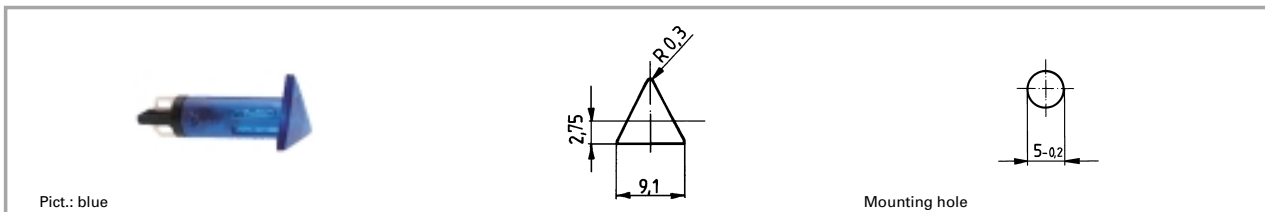| Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
24 V	0.45 W	filament lamp	10000 h	transparent colourless	1.69.508.133/1002
24 V	0.45 W	filament lamp	10000 h	transparent red	1.69.508.133/1301
24 V	0.45 W	filament lamp	10000 h	transparent yellow	1.69.508.133/1402
24 V	0.45 W	filament lamp	10000 h	transparent green	1.69.508.133/1502
24 V	0.45 W	filament lamp	10000 h	transparent blue	1.69.508.133/1601

Technical data see page 3 - 22

Integr. Lamp

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

Signal lamps with integrated filament/neon lamp, 7 mm

Pict.: yellow

Mounting hole

7 -0,2
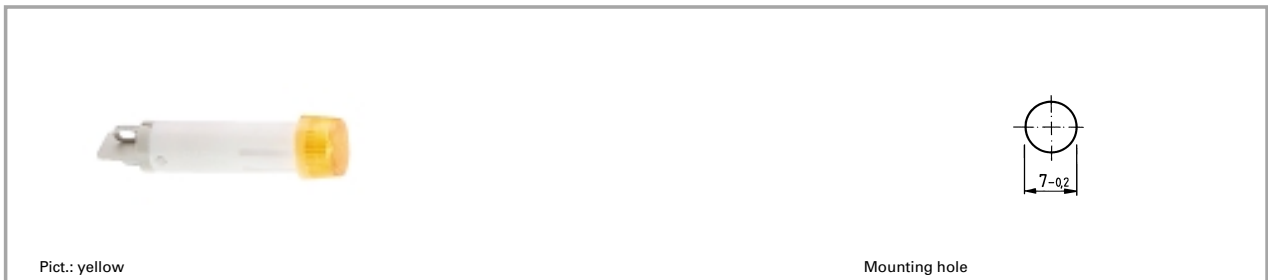
Technical data

General information

Form of lens	round
Colour of lens	see order block
Diameter of collar	8.5 mm

Dimensions

Overall height	5 mm
Mounting depth	see order block
Mounting hole	7 mm

Mechanical design

Mounting	pressing into hole
Terminals	see order block
Lamp socket	no
Lamp	see order block

Electrical characteristics

Voltage limit max.	see order block
Power limit max.	see order block

Other specifications
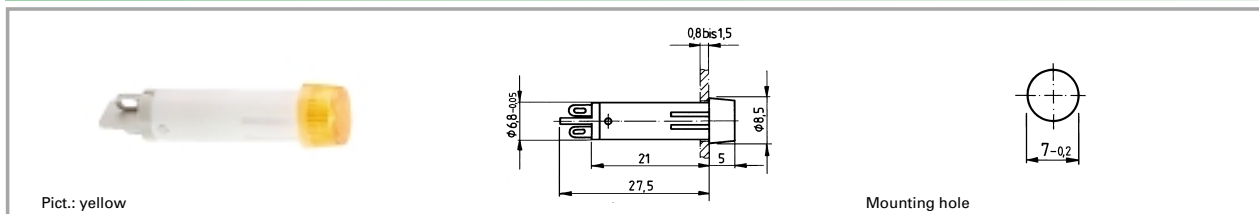
Operating life	25000 h
Degree of protection from front side	IP40
Weight	0.87 g
Approvals neon lamp versions	VDE T85°,SEV T85°, FEMKO T85° b. 0.5 mA

3

Integr.
Lamp

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

Signal lamps with integrated filament/neon lamp, 7 mm, solder terminals

Pict.: yellow   Mounting hole

Voltage limit max.	Power limit max.	Terminals	Lamp	Operating life	Colour of lens	Order no.
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent colourless	**1.69.511.054/1002**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent red	**1.69.511.054/1301**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent yellow	**1.69.511.054/1402**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent green	**1.69.511.054/1502**
230 V		solder terminals	neon lamp		transparent colourless	1.69.511.059/1002
230 V		solder terminals	neon lamp		transparent red	1.69.511.059/1301
230 V		solder terminals	neon lamp		transparent yellow	1.69.511.059/1402

Technical data see page 3 - 24

Other voltages on request.

3

Integr. Lamp
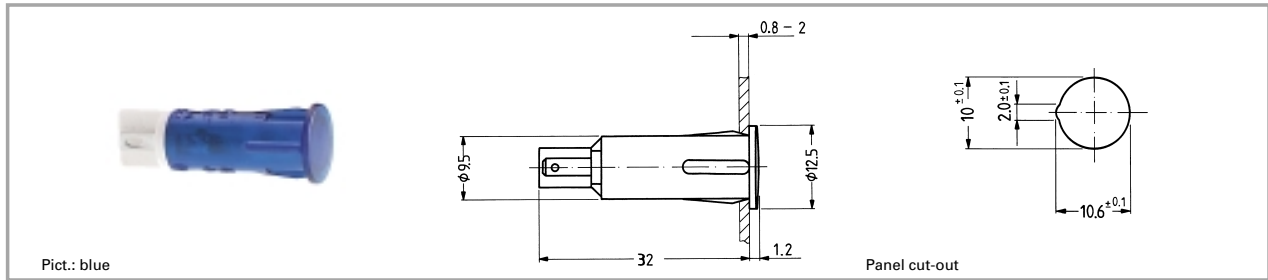
Signal lamps

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

Signal lamps with integrated filament/neon lamp, 10 mm

Pict.: blue

Panel cut-out

Technical data

General information

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

Dimensions

Length of collar	see order block
Width of collar	see order block
Overall height	1.2 mm
Mounting depth	32 mm
Mounting hole	10 mm

Mechanical design

Mounting	pressing into hole
Terminals	quick connector 2.8 x 0.8 tin-plated
Lamp socket	no
Lamp	see order block

Electrical characteristics

Voltage limit max.	see order block
Power limit max.	see order block

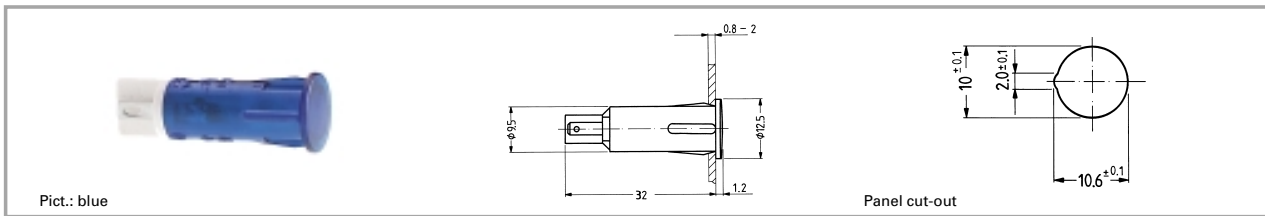**Other specifications**

Operating life	10000 h
Degree of protection from front side	IP40
Weight	2.5 g
Approvals neon lamp (T=°C)	VDE (85) at 1.5 W, VDE (120) at 1.6 mA

3

Integr.
Lamp

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

Signal lamps

Signal lamps with integrated filament/neon lamp, 10 mm, round lens

Pict.: blue
Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	10000 h	transparent colourless	1.69.527.003/1002
28 V	1.2 W	filament lamp	10000 h	transparent red	1.69.527.003/1301
28 V	1.2 W	filament lamp	10000 h	transparent yellow	1.69.527.003/1402
28 V	1.2 W	filament lamp	10000 h	transparent green	1.69.527.003/1502
28 V	1.2 W	filament lamp	10000 h	transparent blue	1.69.527.003/1601
230 V		neon lamp		transparent colourless	**1.69.527.104/1002**
230 V		neon lamp		transparent red	**1.69.527.104/1301**
230 V		neon lamp		transparent yellow	**1.69.527.104/1402**

Technical data see page 3 - 26

3

Integr. Lamp

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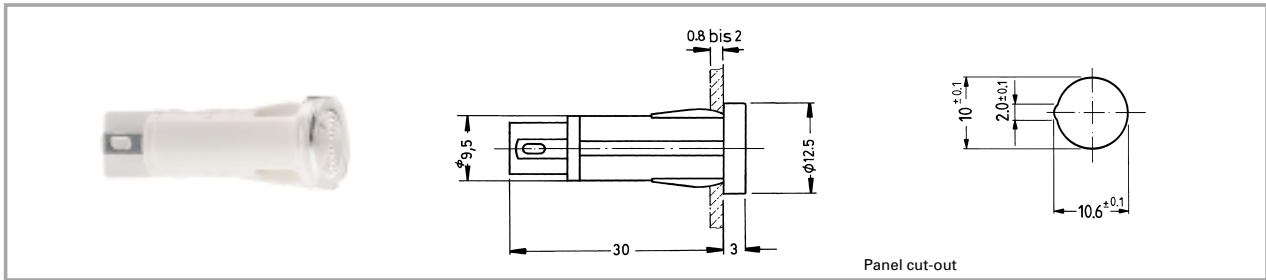
Stock items are marked
by **bold printed** order numbers.

Signal lamps with integrated filament/neon lamp, 10 mm

0.8 bis 2

Φ 9,5

Φ 12,5

30

3

10 ± 0,1

2,0 ± 0,1

10,6 ± 0,1

Panel cut-out

Technical data

General information

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

Dimensions

Length of collar	see order block
Width of collar	see order block
Overall height	3 mm
Mounting depth	30 mm
Mounting hole	10 mm

Mechanical design

Mounting	pressing into hole
Terminals	see order block
Lamp socket	no
Lamp	see order block

Electrical characteristics

| Voltage limit max. | see order block |
| Power limit max. | see order block |

Other specifications

Operating life	see order block
Degree of protection from front side	IP40
Weight	2.5 g
Approvals filament lamp (T = 85°C)	SEV
Approvals neon lamp (T = 120°C)	VDE, SEV

3

Integr. Lamp

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

Signal lamps

Signal lamps with integrated filament/neon lamp, 10 mm, round lens

Pict.: colourless

0.8 bis 2

Panel cut-out

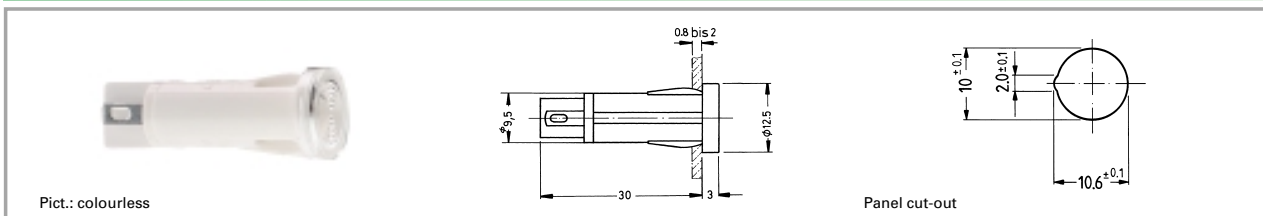| Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	opaque white	1.69.507.103/0214
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent colourless	1.69.507.103/1002
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent red	1.69.507.103/1301
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent yellow	1.69.507.103/1402
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent green	1.69.507.103/1502
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent blue	1.69.507.103/1601
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	opaque white	**1.69.507.105/0214**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent colourless	**1.69.507.105/1002**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent red	**1.69.507.105/1301**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent yellow	**1.69.507.105/1402**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent green	**1.69.507.105/1502**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent blue	**1.69.507.105/1601**
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent colourless	**1.69.507.117/1002**
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent red	**1.69.507.117/1301**
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent yellow	**1.69.507.117/1402**
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent green	**1.69.507.118/1502**

Technical data see page 3 - 28

Other voltages and versions with connection cable on request.

3

Integr. Lamp

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

Signal lamps with integrated filament/neon lamp, 10 mm, square lens
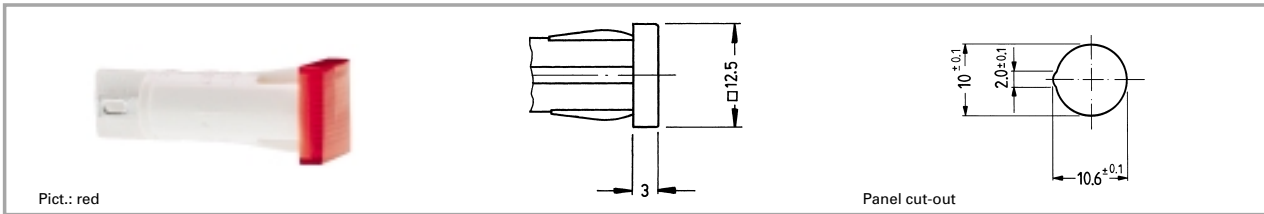
Pict.: red

□12.5

3

10 ±0,1   2,0±0,1

10,6 ±0,1

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	opaque white	1.69.507.123/0214
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent colourless	1.69.507.123/1002
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent red	1.69.507.123/1301
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent yellow	1.69.507.123/1402
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent green	1.69.507.123/1502
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent blue	1.69.507.123/1601
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	opaque white	**1.69.507.125/0214**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent colourless	**1.69.507.125/1002**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent red	**1.69.507.125/1301**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent yellow	**1.69.507.125/1402**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent green	**1.69.507.125/1502**
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent blue	**1.69.507.125/1601**
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent colourless	1.69.507.137/1002
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent red	1.69.507.137/1301
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent yellow	1.69.507.137/1402
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent green	1.69.507.138/1502

Technical data see page 3 - 28

Other voltages and versions with connection cable on request.

3

Integr. Lamp

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

Signal lamps with integrated filament/neon lamp, 10 mm, lens in arrow shape

Pict.: green

Panel cut-out

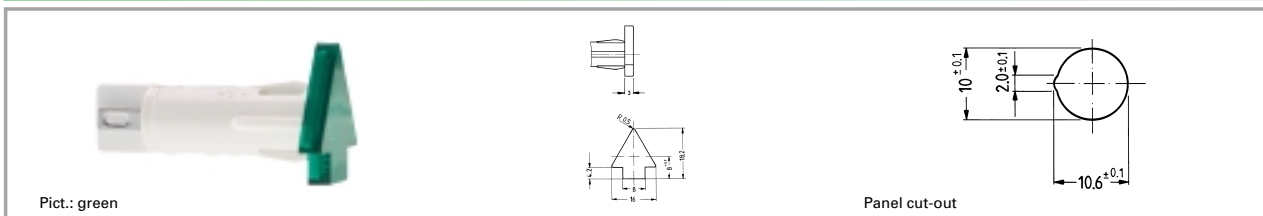| Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	opaque white	1.69.507.143/0214
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent colourless	1.69.507.143/1002
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent red	1.69.507.143/1301
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent yellow	1.69.507.143/1402
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent green	1.69.507.143/1502
14 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent blue	1.69.507.143/1601
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	opaque white	1.69.507.145/0214
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent colourless	1.69.507.145/1002
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent red	1.69.507.145/1301
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent yellow	1.69.507.145/1402
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent green	1.69.507.145/1502
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	10000 h	transparent blue	1.69.507.145/1601
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent colourless	1.69.507.157/1002
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent red	1.69.507.157/1301
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent yellow	1.69.507.157/1402
230 V		neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent green	1.69.507.158/1502

Technical data see page 3 - 28

Other voltages and versions with connection cable on request.

3

Integr. Lamp

Signal lamps

3 - 31

Signal lamps with integrated filament/neon lamp, 14 mm

Panel cut-out

Technical data

General information

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

Dimensions

Length of collar	see order block
Width of collar	see order block
Overall height	4 mm
Mounting depth	see order block
Mounting hole	14 mm

Mechanical design

Mounting	pressing into hole
Terminals	see order block
Lamp socket	no
Lamp	see order block

Electrical characteristics

Voltage limit max.	see order block
Power limit max.	1.2 W

Other specifications

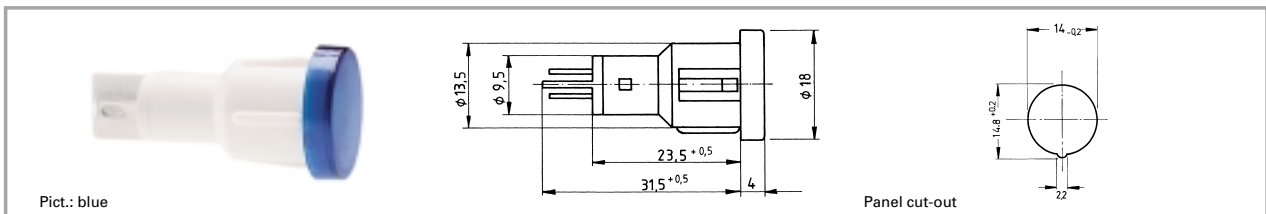|	
Operating life	see order block
Degree of protection from front side	IP40
Weight	5 g
Approvals at 1.5 mA (T 85°C)	VDE, SEV, FEMKO, DEMKO

3

Integr. Lamp

Signal lamps with integrated filament lamp, 14 mm, round lens, 28 V

Pict.: blue

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent colourless	1.69.523.003/1002
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent red	1.69.523.003/1301
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent yellow	1.69.523.003/1402
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent green	1.69.523.003/1502
28 V	1.2 W	filament lamp	quick connector 2.8 x 0.8 tin-plated	15000 h	transparent blue	1.69.523.003/1601

Technical data see page 3 - 32

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

Signal lamps

C&K

Signal lamps with integrated neon lamp, 14 mm, round lens, 230 V

Pict.: colourless

Panel cut-out
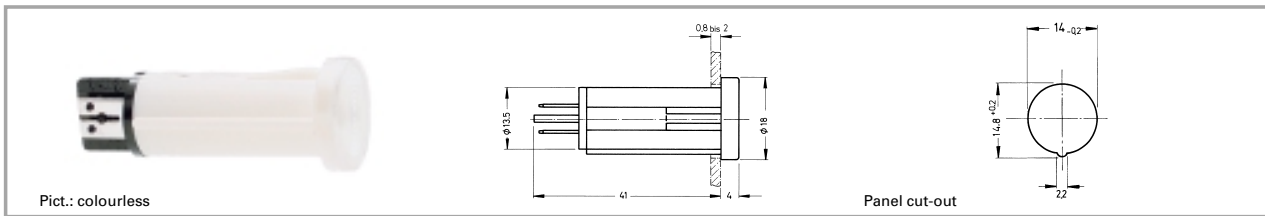
Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
230 V	1.2 W	neon lamp	quick connector 6.3 x 0.8 tin-plated		transparent colourless	1.02.614.502/1002
230 V	1.2 W	neon lamp	quick connector 6.3 x 0.8 tin-plated		transparent red	1.02.614.502/1301
230 V	1.2 W	neon lamp	quick connector 6.3 x 0.8 tin-plated		transparent yellow	1.02.614.502/1402
230 V	1.2 W	neon lamp	quick connector 2.8 x 0.8 tin-plated		transparent green	1.02.614.503/1502

Technical data see page 3 - 32

3

Integr. Lamp

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