Signal lamps with integrated LED - 10 mm



Technical Data

General	inform	ation
General	111101111	auvii

Form of lens se Colour of lens se Diameter of collar 12

Dimensions

Overall height Mounting depth Mounting hole

Mechanical design

Mounting Terminals

Lamp socket Lamp see order block see order block 12.5 mm

see order block 30.5 mm 10 mm

pressing into hole quick connector 2.8 x 0.8 mm

no

see order block

Electrical characteristics

Operating voltage U_B Integrated currency resistor Forward voltage U_F at 25 °C

Reverse voltage U_R at 25 °C Forward current, I_F Reverse current I_R at 25 °C Power dissipation P_{tot} at 25 °C Light intensity Protecting diode

Other specifications

Degree of protection from front side Weight

see order block see order block at 20 mA forward current 2.4 V

current 2.4 V 3 V

see order block 100 µA max. 120 mW see order block see order block

IP40

2.44 g

Operating voltage U_B DC voltage from 6 - 28 V

A suitable series resistor is installed in the unit; the version without resistor must be fitted with an external one. A version with an additional protective diode is available to protect the LED against any voltage peaks.

External resistor: R_V= (U_B - U_F): I_F

Recommended ratings of external resistors:

- for $6 7 V = 330 \Omega 0.25 W$
- for 12 16 V = 680 Ω 0.5 W
- for 24 28 V = $1500 \Omega 20.3 VV$

integr.

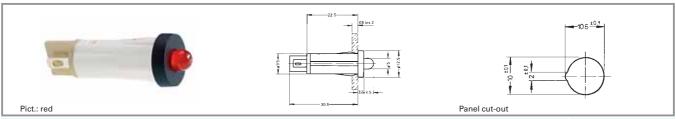
LED

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SOLUTIONS WITH PASSION

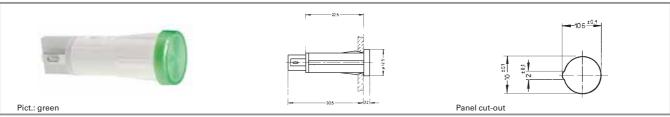
Signal lamps with integrated LED - 10 mm, protruding LED



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Integrated currency resistor	Protecting diode	Operating voltage U _B	Forward current, I _F	Colour of lens	Light intensity	Order no.
no	yes	according to series resistor 6 - 28 V	max. 20 mA	red	1000 mcd	1.69.525.051/0000
no	yes	according to series resistor 6 - 28 V	max. 20 mA	green	1000 mcd	1.69.525.056/0000
no	yes	according to series resistor 6 - 28 V	max. 20 mA	yellow	200 mcd	1.69.525.061/0000
no	no	according to series resistor 6 - 28 V	max. 20 mA	red	200 mcd	1.69.525.001/0000
no	no	according to series resistor 6 - 28 V	max. 20 mA	green	1000 mcd	1.69.525.006/0000
no	no	according to series resistor 6 - 28 V	max. 20 mA	yellow	200 mcd	1.69.525.011/0000
yes	yes	24 - 28 V	15 - 20 mA	red	200 mcd	1.69.525.054/0000
yes	yes	24 - 28 V	13 - 18.5 mA	green	1000 mcd	1.69.525.059/0000
yes	yes	24 - 28 V	13 - 18.5 mA	yellow	200 mcd	1.69.525.064/0000
yes	no	24 - 28 V	15 - 20 mA	red	200 mcd	1.69.525.004/0000
yes	no	24 - 28 V	13 - 18.5 mA	green	1000 mcd	1.69.525.009/0000
yes	no	24 - 28 V	13 - 18.5 mA	yellow	200 mcd	1.69.525.014/0000

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Signal lamps with integrated LED - 10 mm, round lens



Integrated currency resistor	Protecting diode	Operating voltage U _B	Forward current, I _F	Colour of lens	Light intensity	Order no.
yes	yes	24 - 28 V	15 - 20 mA	red	200 mcd	1.69.525.255/1300
yes	yes	24 - 28 V	13 - 18.5 mA	green	1000 mcd	1.69.525.260/1500
yes	yes	24 - 28 V	13 - 18.5 mA	yellow	200 mcd	1.69.525.265/1400
yes	yes	24 - 28 V	-	blue	300 mcd	1.69.525.266/1600
yes	yes	24 - 28 V	-	white	400 mcd	1.69.525.271/1000
yes	no	24 - 28 V	15 - 20 mA	red	200 mcd	1.69.525.205/1300
yes	no	24 - 28 V	13 - 18.5 mA	green	1000 mcd	1.69.525.210/1500
yes	no	24 - 28 V	13 - 18.5 mA	yellow	200 mcd	1.69.525.215/1400
yes	no	24 - 28 V	-	blue	300 mcd	1.69.525.216/1600
yes	no	24 - 28 V	-	white	400 mcd	1.69.525.221/1000

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Other voltages on request.

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integr. LED