LDLV series

Special photoelectric sensors
M30 luminescence scanner - DC

features

- **Ultraviolet light emission**
- **Local and remote Teach-in function**
- **Multifunction LED status indicator**
- **LO/DO selectable outputs**
- **Delay selectable**
- **Complete protection against electrical damages**
- **IP65 protection degree**

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code description

LDL V / 0 N - 1 K

series	LDL	Ultraviolet light luminescnce scanner
housing type	V	M30 housing
LO/DO	0	Selectable LO/DO
output	N	NPN output
	P	PNP output
housing material	1	Metallic housing
plug exit	K	Right-angle plug exit

available models

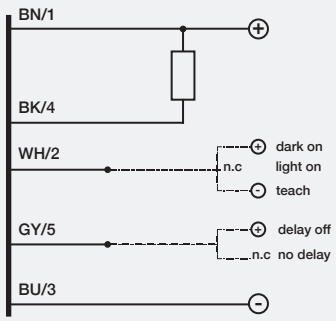
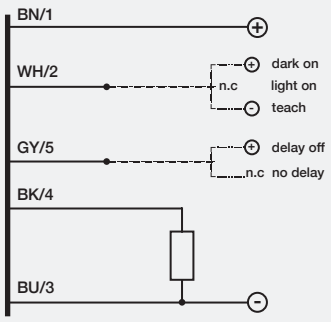
description	NPN - LO/DO	PNP - LO/DO
right-angle plug cable exit	LDLV/0N-1K	LDLV/0P-1K

technical specification

	LDLV/**-**
nominal sensing distance [1]	30 mm
spot dimension	3x1 mm
operating voltage	10...30 Vdc
ripple	< 10 %
no-load supply corrent	20 mA
load current	100 mA
leakage current	< 10 µA
voltage drop	≤ 1,4 V max. IL = 100 mA
output type	NPN or PNP LO/DO selectable
switching frequency	400 Hz
response time	1,1 ms
time delay before availability	200 ms
power supply protections	polarity reversal, transient
output protection	short circuit (autoreset)
temperature range	-5°C...+55°C (without freeze)
EMC	in conformity with the EMC Directive according to EN 60947-5-2
temperature drift	10 %
interference to external light	3.000 lux (incandescent lamp), 10.000 lux (sunlight)
protection degree	IP65 (EN60529) [1]
LED indicators	yellow (output state) [2]
housing material	nickel-plated brass
cable exit material	polycarbonate
optical material	PMMA
tightening torque	50 Nm
weight (approximate)	400 g

[1] protection guaranteed only with plug cable well mounted
[2] LED's functions are: output state, signal level, teach function

electrical diagrams of the connections

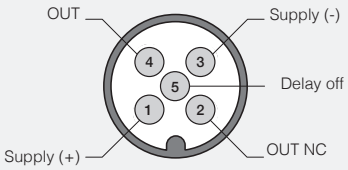
NPN	PNP
	

BN	brown
BU	blue
BK	black
WH	withe
PK	pink
GY	gray

In case both dark on and remote teach functions are necessary, connect a pull-up resistor of 2,2 kΩ between WH/2 and BN/1
NOTE: In case of combined load, resistive and capacitive, the maximum admissible capacity (C) is 0,2 µF for maximum output voltage and current.

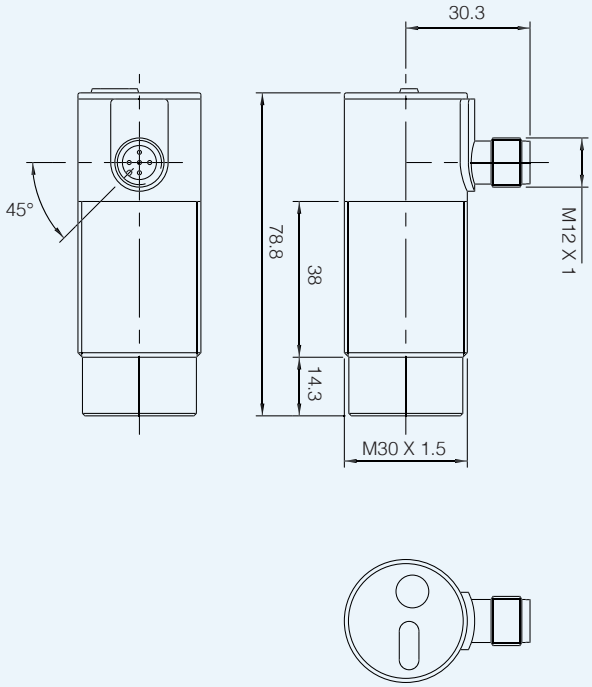
plug

M12



dimensions (mm)

LDLV/-****



dimensions (mm)

accessories included