

<b>Power consumption, sender</b>	≤ 30 mA <sup>3)</sup>
<b>Power consumption, receiver</b>	≤ 15 mA <sup>3)</sup>
<b>Output type</b>	PNP
<b>Output function</b>	Complementary
<b>Switching mode</b>	Light/dark switching
<b>Signal voltage PNP HIGH/LOW</b>	> U <sub>v</sub> - 2,5 V / ca. 0 V
<b>Output current I<sub>max.</sub></b>	100 mA
<b>Response time</b>	≤ 330 μs <sup>4)</sup>
<b>Switching frequency</b>	1,500 Hz <sup>5)</sup>
<b>Connection type</b>	Male connector M12, 4-pin
<b>Circuit protection</b>	A <sup>6)</sup> C <sup>7)</sup> D <sup>8)</sup>
<b>Protection class</b>	II
<b>Weight</b>	120 g
<b>Housing material</b>	Metal
<b>Enclosure rating</b>	IP66 IP67 IP69K
<b>Test input sender off</b>	TE to 0 V
<b>Ambient operating temperature</b>	-40 °C ... +60 °C
<b>Ambient storage temperature</b>	-40 °C ... +75 °C
<b>UL File No.</b>	NRKH.E181493 & NRKH7.E181493
<b>Part number of individual components</b>	2041879 WS12-3D2430 2041881 WE12-3P2431

1) Limit values when operated in short-circuit protected network: max. 8 A.

2) May not exceed or fall below U<sub>v</sub> tolerances.

3) Without load.

4) Signal transit time with resistive load.

5) With light/dark ratio 1:1.

6) A = V<sub>S</sub> connections reverse-polarity protected.

7) C = interference suppression.

8) D = outputs overcurrent and short-circuit protected.

## Classifications

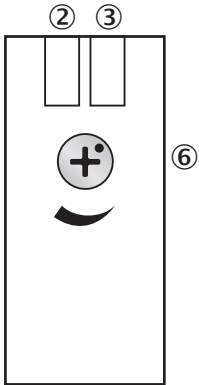
<b>ECl@ss 5.0</b>	27270901
<b>ECl@ss 5.1.4</b>	27270901
<b>ECl@ss 6.0</b>	27270901
<b>ECl@ss 6.2</b>	27270901
<b>ECl@ss 7.0</b>	27270901
<b>ECl@ss 8.0</b>	27270901
<b>ECl@ss 8.1</b>	27270901
<b>ECl@ss 9.0</b>	27270901
<b>ETIM 5.0</b>	EC002716
<b>ETIM 6.0</b>	EC002716

UNSPSC 16.0901

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**Adjustments possible**

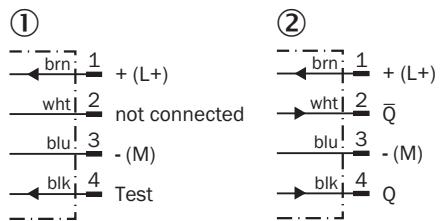
WL12-3, WSE12-3



- ② LED indicator yellow: Status of received light beam
- ③ LED indicator green: Supply voltage active
- ⑥ Sensitivity control: potentiometer

**Connection diagram**

Cd-072



- ① Sender
- ② Receiver