

|  |   |
|--|---|
| <b>Power consumption</b>               | ≤ 30 mA   |
| <b>Output type</b>                     | PNP   |
| <b>Output function</b>                 | Complementary   |
| <b>Switching mode</b>                  | Light/dark switching                                  |
| <b>Output current I<sub>max.</sub></b> | 100 mA <sup>3)</sup>                                  |
| <b>Response time</b>                   | < 1,000 μs <sup>4)</sup>                              |
| <b>Switching frequency</b>             | 500 Hz <sup>5)</sup>                                  |
| <b>Connection type</b>                 | Male connector M12, 4-pin                             |
| <b>Circuit protection</b>              | A <sup>6)</sup><br>B <sup>7)</sup><br>D <sup>8)</sup> |
| <b>Protection class</b>                | III   |
| <b>Housing material</b>                | Nickel-plated brass and ABS                           |
| <b>Optics material</b>                 | Plastic, PMMA   |
| <b>Enclosure rating</b>                | IP67  |
| <b>Items supplied</b>                  | Fastening nuts (2 x)                                  |
| <b>EMC</b>                             | EN 60947-5-2  |
| <b>Ambient operating temperature</b>   | -25 °C ... +55 °C <sup>9)</sup>                       |
| <b>Ambient storage temperature</b>     | -40 °C ... +70 °C                                     |
| <b>UL File No.</b>                     | NRKH.E348498 & NRKH7.E348498                          |

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) At U<sub>v</sub> > 24 V or ambient temperature > 49 °C, I<sub>A</sub> max. = 50 mA.

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) B = inputs and output reverse-polarity protected.

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

9) At U<sub>v</sub> ≤ 24V and I<sub>A</sub> < 50mA.

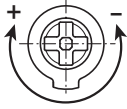
## Classifications

|                       |          |
|-----------------------|----------|
| <b>ECl@ss 5.0</b>     | 27270903 |
| <b>ECl@ss 5.1.4</b>   | 27270903 |
| <b>ECl@ss 6.0</b>     | 27270903 |
| <b>ECl@ss 6.2</b>     | 27270903 |
| <b>ECl@ss 7.0</b>     | 27270903 |
| <b>ECl@ss 8.0</b>     | 27270903 |
| <b>ECl@ss 8.1</b>     | 27270903 |
| <b>ECl@ss 9.0</b>     | 27270903 |
| <b>ETIM 5.0</b>       | EC001821 |
| <b>ETIM 6.0</b>       | EC001821 |
| <b>UNSPSC 16.0901</b> | 39121528 |

### Adjustments possible

GRTB18(S), GRTE18(S), Sensing rang setting: Potentiometer, 270°

Sensing range



### Connection diagram

Cd-084

