

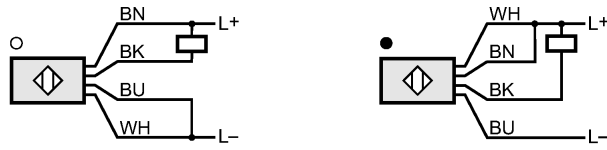
**Product characteristics**

|   |   |
|---|---|
| Fiber-optic amplifier                         |   |
| Rectangular, plastics                         |   |
| Cable   |   |
| Sensing range 0...120mm (Through-beam sensor) |   |
| Range 0...40mm (Diffuse reflection sensor)    |   |
| adjustable                                    |   |
| <b>Electrical data</b>                        |   |
| Electrical design                             | DC NPN                                    |
| Operating voltage [V]                         | 10...36 DC                                |
| Current consumption [mA]                      | 30 (24 V)                                 |
| Type of light                                 | red light 660 nm                          |
| Protection class                              | III                                       |
| Reverse polarity protection                   | yes                                       |
| <b>Outputs</b>                                |   |
| Output function                               | light-on / dark-on programmable           |
| Voltage drop [V]                              | < 2.5                                     |
| Current rating [mA]                           | 250                                       |
| Short-circuit protection                      | yes (non-latching)                        |
| Overload protection                           | yes                                       |
| Switching frequency [Hz]                      | 120                                       |
| <b>Monitoring range</b>                       |   |
| Sensing range [m]                             | 0...0.12 (Through-beam sensor)            |
| Range [mm]                                    | 0...40 (Diffuse reflection sensor)        |
| <b>Environment</b>                            |   |
| Ambient temperature [°C]                      | -25...60                                  |
| Protection                                    | IP 65                                     |
| <b>Tests / approvals</b>                      |   |
| EMC   | EN 60947-5-2<br>EN 55011: class B         |
| MTTF [Years]                                  | 529                                       |
| <b>Mechanical data</b>                        |   |
| Housing materials                             | modified PPO                              |
| Weight [kg]                                   | 0.152                                     |
| <b>Displays / operating elements</b>          |   |
| Output status indication LED                  | yellow                                    |
| <b>Electrical connection</b>                  |   |
| Connection                                    | PVC cable / 2 m; 4 x 0.34 mm <sup>2</sup> |

**Wiring**

# OK5002 - Fiber-optic amplifier - eclass: 27270905 / 27-27-09-05

Core colors  
 BN brown  
 BU blue  
 BK black  
 WH white



**Accessories**

Accessories (included) | screwdriver; 2 mounting screws; M4 x 25; 2 washers; 2 spring washers; 2 nuts

**Remarks**

Remarks | When through-beam fibre optics are connected light-on mode means the output function "NC" and when diffuse reflection fibre optics are connected the output function "NO".  
 When through-beam fibre optics are connected dark-on mode means the output function "NO" and when diffuse reflection fibre optics are connected the output function "NC"

Pack quantity [piece] | 1