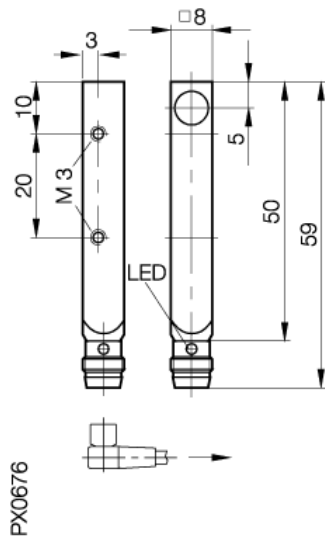


BES 516-300-S166-S49  
BES0180

PNP  
NO  
flush mountable



#### Electrical data:

|                                             |                    |
|---------------------------------------------|--------------------|
| Time delay before availability              | 10 ms              |
| Utilization category                        | DC 13              |
| Hysteresis max. (H)                         | 15 %               |
| Switching output                            | PNP                |
| Connection                                  | Connector S49 (M8) |
| Electrical type                             | DC                 |
| Off-state current max (I <sub>r</sub> )     | 80 µA              |
| Ripple max. of U <sub>e</sub>               | = 15 %             |
| Supply voltage max. (U <sub>b</sub> )       | 30 V               |
| Supply voltage min. (U <sub>b</sub> )       | 10 V               |
| No-load supply current damped               | 12 mA              |
| No-load supply current undamped             | 4 mA               |
| Operating frequency (f)                     | 5000 Hz            |
| Voltage drop max. static                    | 2,5 V              |
| Rated operational voltage (U <sub>e</sub> ) | 24 DC V            |
| Load current capacity (I <sub>e</sub> )     | 200 mA             |
| Switching element function                  | NO                 |

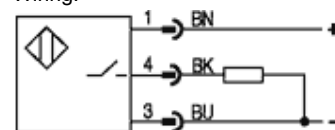
#### Mechanical data:

|                                            |                 |
|--------------------------------------------|-----------------|
| Assured operating distance                 | 0...1,2 mm      |
| Ambient temperature min                    | -25 °C          |
| Degree of pollution                        | 3               |
| Rated operating distance (s <sub>n</sub> ) | 1,5 mm          |
| Repeat accuracy max. (R)                   | 5 %             |
| Number of Wires                            | 3-wire          |
| Mounting                                   | flush mountable |
| Sensing face material                      | POM             |
| Housing material                           | Gd Zn Al        |
| Ambient temperature max                    | +70 °C          |

#### General data:

|                                     |            |
|-------------------------------------|------------|
| Approval                            | CE,c_ul_us |
| Output indication                   | yes        |
| Short circuit protected             | yes        |
| Protected against polarity reversal | yes        |
| Degree of protection IP             | IP67       |

#### Wiring:



#### Pinout:

