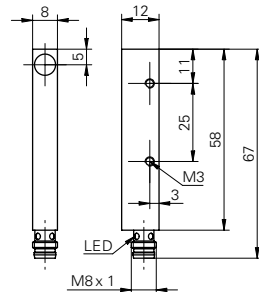


## Diffuse sensors with intensity difference

### FZDM 08

#### sample drawing



#### general data

|                                     |                          |
|-------------------------------------|--------------------------|
| type                                | intensity difference     |
| light source                        | pulsed infrared diode    |
| alignment / soiled lens indicator   | flashing light indicator |
| light indicator                     | LED red                  |
| sensitivity adjustment              | no                       |
| wave length                         | 880 nm                   |
| suppression of reciprocal influence | yes                      |

#### electrical data

|                              |               |
|------------------------------|---------------|
| response time / release time | < 1 ms        |
| voltage supply range +Vs     | 10 ... 30 VDC |
| current consumption max.     | 42 mA         |
| current consumption typ.     | 20 mA         |
| voltage drop Vd              | < 2 VDC       |
| output circuit               | PNP           |
| output current               | < 100 mA      |
| short circuit protection     | yes           |
| reverse polarity protection  | yes           |

#### mechanical data

|                  |                   |
|------------------|-------------------|
| width / diameter | 8 mm              |
| height / length  | 58 mm             |
| depth            | 12 mm             |
| type             | rectangular       |
| housing material | aluminum anodized |
| front (optics)   | PC                |

#### ambient conditions

|                       |                |
|-----------------------|----------------|
| operating temperature | -25 ... +65 °C |
| protection class      | IP 65          |

#### sample picture



**Diffuse sensors with  
intensity difference****FZDM 08**

| <b>order reference</b>   | <b>sensing distance Tw</b> | <b>connection types</b> | <b>output function</b> |
|--------------------------|----------------------------|-------------------------|------------------------|
| <b>FZDM 08P1001</b>      | < 40 mm                    | cable 3 pin, 2 m        | light operate          |
| <b>FZDM 08P1001/S35L</b> | < 40 mm                    | connector M8, 3 pin     | light operate          |
| <b>FZDM 08P1002</b>      | < 80 mm                    | cable 3 pin, 2 m        | light operate          |
| <b>FZDM 08P1002/S35L</b> | < 80 mm                    | connector M8, 3 pin     | light operate          |
| <b>FZDM 08P3001</b>      | < 40 mm                    | cable 3 pin, 2 m        | dark operate           |
| <b>FZDM 08P3001/S35L</b> | < 40 mm                    | connector M8, 3 pin     | dark operate           |
| <b>FZDM 08P3002</b>      | < 80 mm                    | cable 3 pin, 2 m        | dark operate           |
| <b>FZDM 08P3002/S35L</b> | < 80 mm                    | connector M8, 3 pin     | dark operate           |