



1) Disc removable, 2) cap nut

### Basic features

|                     |                              |
|---------------------|------------------------------|
| Basic standard      | IEC 60947-5-2                |
| Reference base unit | BFB M18M-011-P-S4            |
| Scope of delivery   | Fiber optics<br>Retainer nut |
| Version             | Ø 6, 90° optics              |

### Environmental conditions

|                                     |                             |
|-------------------------------------|-----------------------------|
| Ambient temperature                 | -40...150 °C                |
| Ambient temperature connection area | Acc. to fiber optic sensor  |
| Ambient temperature max.            | 150 °C static, dynamic      |
| Ambient temperature min.            | -40 °C static, 0 °C dynamic |
| IP rating                           | IP67                        |

### Material

|                                   |                              |
|-----------------------------------|------------------------------|
| Active surface, fiber arrangement | Homogeneous bundle           |
| Fiber type material               | Glass                        |
| Housing material                  | Brass, Blackened             |
| Material jacket                   | Silicone, on stainless steel |
| Surface protection                | Blackened                    |

### Mechanical data

|                                |  |
|--------------------------------|--|
| Active surface, fibers         | Bundle Ø 2.1 mm  |
| Cable diameter D               | 5.50 mm  |
| Cable length L                 | 0.75 m   |
| Cable, bending radius min.     | 60 mm  |
| Connection 1                   | M18x1  |
| Connection 2                   | M30x1.5  |
| Connection type                | Adapter head, 0.75 m, Silicone                             |
| Dimension                      | Ø 8 x 31 mm  |
| Fiber optic cable, structure   | Fiber bundle in metal coil<br>Metal coil in plastic jacket |
| Length B min., without bending | 15.00 mm   |
| Mounting                       | Clamped  |
| Tensile load max. at 20 °C     | 45 N   |

### Range/Distance

|   |        |
|---|--------|
| Range                                   | 200 mm |
| Rated operating distance S <sub>n</sub> | 200 mm |
| Real switching distance s <sub>r</sub>  | 200 mm |

Remarks

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Order accessories separately.

Route fiber optic cable so that no excessive tensile, compression or torsional forces are permitted. Observe permissible bending radiuses. Installation may affect the switching distance.

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

**Opto Symbols**

