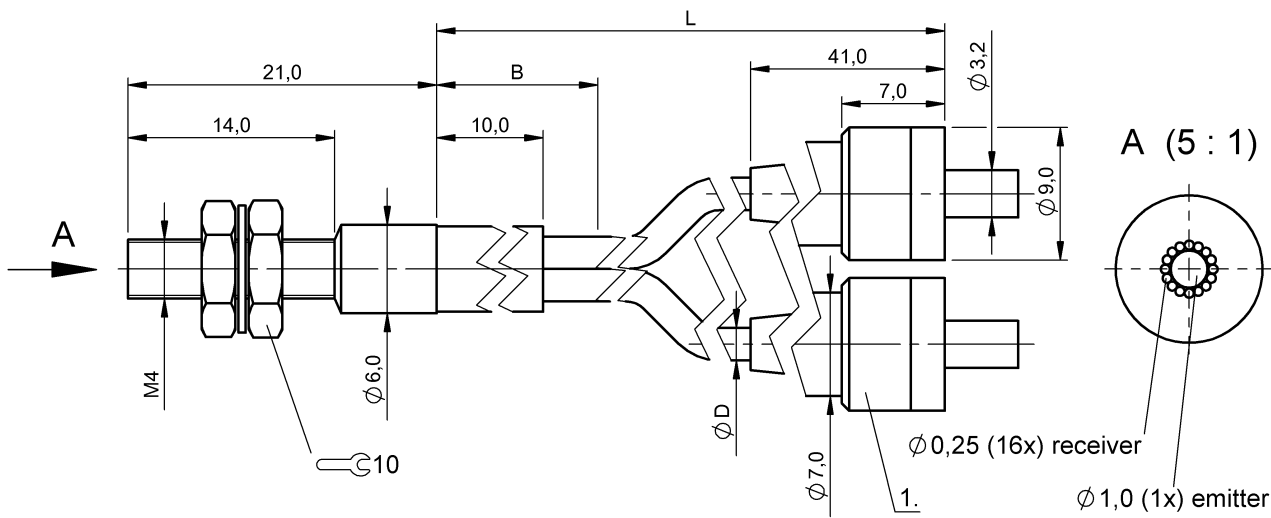




1) SMA 905

Basic features

|                     |                                |
|---------------------|--------------------------------|
| Basic standard      | IEC 60947-5-2                  |
| Reference base unit | BFS 33M-GSS-..                 |
| Use                 | for fiber optic base units BFB |
| Version             | M4, coaxial optics             |

Environmental conditions

|                                     |                            |
|-------------------------------------|----------------------------|
| Ambient temperature                 | -40...60 °C                |
| Ambient temperature connection area | Acc. to fiber optic sensor |
| IP rating                           | IP65                       |

Material

|                                   |                              |
|-----------------------------------|------------------------------|
| Active surface, fiber arrangement | Ring around individual fiber |
| Fiber type material               | PMMA                         |
| Housing material                  | Brass, nickel-plated         |
| Material jacket                   | PE                           |
| Surface protection                | nickel-plated                |

Mechanical data

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Active surface, fibers         | Ø 0.25 mm (16x)<br>Ø 1.0 mm                                      |
| Cable diameter D               | 2.20 mm                                                          |
| Cable length L                 | 2 m                                                              |
| Cable, bending radius min.     | 25 mm                                                            |
| Connection type                | Cable, 2.00 m, PE                                                |
| Dimension                      | Ø 6 x 25 mm                                                      |
| Fiber optic cable, structure   | Single fiber in plastic jacket<br>Fiber bundle in plastic jacket |
| Length B min., without bending | 20.00 mm                                                         |
| Mounting part                  | M4 nut                                                           |
| Tensile load max. at 20 °C     | 6 N (max. 3s)                                                    |

Range/Distance

|                             |        |
|-----------------------------|--------|
| Range                       | 130 mm |
| Rated operating distance Sn | 130 mm |
| Real switching distance sr  | 130 mm |

Remarks

Basic type: BFO D22-XB-LB-EAK-15-02 Deviation from basic type: With SMA connector, for use with BFS 33M-GSS-  
Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.  
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.

Opto Symbols

