



**Model Number**

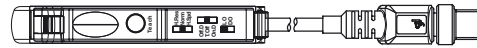
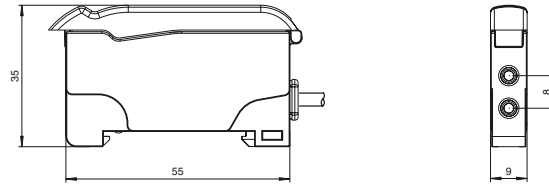
**SU18-40a/102/115a/126a**

Fiber optic sensor  
200 mm fixed cable with 4-pin, M8x1 connector

**Features**

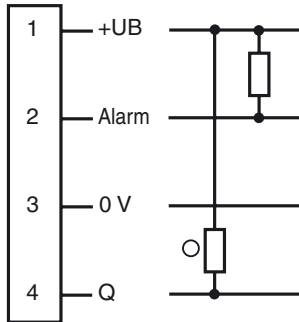
- Basic line for DIN rail installation
- Sleek design
- 3 response times selectable
- High switching frequency
- Self diagnosis function

**Dimensions**



|                                |                         |
|--------------------------------|-------------------------|
| <input type="checkbox"/> H.Res | H.Res = High Resolution |
| <input type="checkbox"/> Norm  | Norm = Normal           |
| <input type="checkbox"/> H.Spd | H.Spd = High Speed      |
| <input type="checkbox"/> Off.D | Off.D = Off Delay       |
| <input type="checkbox"/> T.Off | T.Off = Timer off       |
| <input type="checkbox"/> On.D  | On.D = On Delay         |
| <input type="checkbox"/> LO    | LO = Light on           |
| <input type="checkbox"/> DO    | DO = Dark on            |

**Electrical connection**



○ = Light on  
● = Dark on

**Pinout**



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**Technical data****General specifications**

|                     |                                      |
|---------------------|--------------------------------------|
| Sensor range        | up to 150 mm (KLR-C02-2,2-2,0-K146)  |
| Detection range     | up to 450 mm (KLE-C01-2,2-2,0-K116)  |
| Light source        | LED                                  |
| Light type          | modulated visible red light , 660 nm |
| Ambient light limit | 10000 Lux                            |

**Functional safety related parameters**

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 690 a |
| Mission Time (T <sub>M</sub> ) | 20 a  |
| Diagnostic Coverage (DC)       | 0 %   |

**Indicators/operating means**

|                     |  |
|---------------------|--|
| Operation indicator | LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)   |
| Function indicator  | LED yellow: static illumination switching state, flashes when falling short of the stability control   |
| Control elements    | Teach-In key<br>slide switch 2 positions: light/dark switching<br>slide switch 3 positions: timer function - timer off, on delay 40 ms, off-delay 40 ms<br>slide switch 3 positions: operating mode - normal, high speed , high resolution |

**Electrical specifications**

|                        |                |                |
|------------------------|----------------|----------------|
| Operating voltage      | U <sub>B</sub> | 10 ... 30 V DC |
| Ripple                 |                | 10 %           |
| No-load supply current | I <sub>0</sub> | ≤ 30 mA        |

**Output**

|                             |   |   |
|-----------------------------|---|---|
| Pre-fault indication output | 1 NPN, short-circuit protected open collector |   |
| Switching type              | light/dark on, switchable                     |   |
| Signal output               | 1 NPN, short-circuit protected open collector |   |
| Switching voltage           | max. 30 V DC                                  |   |
| Switching current           | max. 100 mA , resistive load                  |   |
| Voltage drop                | U <sub>d</sub>                                | ≤ 2 V DC at 100 mA ; ≤ 0.7 V at 10 mA                                   |
| Switching frequency         | f   | Standard mode: 3 kHz , High speed mode: 6 kHz , High resolution: 500 Hz |
| Response time               |   | Standard mode: 160 μs , High speed mode: 80 μs , High resolution: 1 ms  |
| Repeat accuracy             | R   | ≤ 0.5 % of adjusted sensor range  |

**Ambient conditions**

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -10 ... 55 °C (14 ... 131 °F) |
| Storage temperature | -20 ... 70 °C (-4 ... 158 °F) |

**Mechanical specifications**

|                      |  |
|----------------------|--|
| Degree of protection | IP50                                       |
| Connection           | 200 mm, PVC cable with M8 connector, 4-pin |
| Material             |  |
| Housing              | PC   |
| Mass                 | 45 g                                       |

**Compliance with standards and directives**

|                     |   |
|---------------------|---|
| Standard conformity |   |
| Product standard    | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

**Approvals and certificates**

|              |  |
|--------------|--|
| UL approval  | cULus Listed, Class 2 Power Source, Type 1 enclosure         |
| CCC approval | CCC approval / marking not required for products rated ≤36 V |

**Accessories****HPF-D032**

**KLR-C02-2,2-2,0-K146**  
Plastic fiber optic - diffuse

**KLR-C02-2,2-2,0-K70**  
Plastic fiber optic - diffuse

**KLR-C02-1,0-2,0-K75**  
Plastic fiber optic - diffuse

**KLR-C09-1,25-2,0-K76**  
Plastic fiber optic - diffuse

**KLR-C09-1,25-2,0-K74**  
Plastic fiber optic - diffuse

**KLR-C16-2,2-2,0-K71**  
Plastic fiber optic - diffuse

**KLR-A32-2,2-2,0-K83**  
Plastic fiber optic - diffuse

**KHR-C02-2,2-2,0-K131**  
Plastic fiber optic - diffuse

**KHTR-C02-2,2-2,0-K88**  
Plastic fiber optic - diffuse

**LHR 00-0,8-1,0-20M4**  
Glass fiber optic - diffuse with silicon covering

**KLE-C01-2,2-2,0-K116**  
Plastic fiber optic - thru-beam

**KLE-C01-2,2-2,0-K103**  
Plastic fiber optic - thru-beam

**KLE-C01-2,2-2,0-K102**  
Plastic fiber optic - thru-beam

**KLE-C01-2,2-2,0-K100**  
Plastic fiber optic - thru-beam

**KLE-C01-2,2-2,0-K101**  
Plastic fiber optic - thru-beam

**KLE-C01-2,2-2,0-K113**  
Plastic fiber optic - thru-beam

**KLE-C01-1,0-2,0-K120**  
Plastic fiber optic - thru-beam

**KHE-C01-2,2-2,0-K122**  
Plastic fiber optic - thru-beam

**KHTE-C01-2,2-2,0-K118**  
Plastic fiber optic - thru-beam

**LHE 00-1,1-1,0-20M4**  
Glass fiber optic - thru-beam with silicon covering

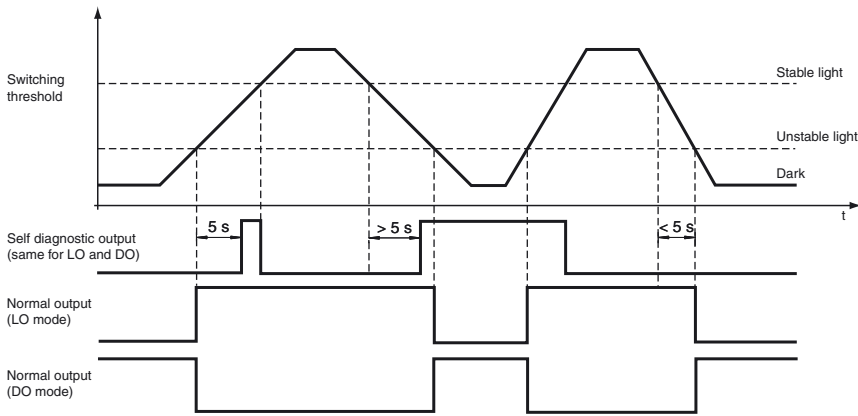
**Bracket SU**  
Mounting bracket for DIN rail

Other suitable accessories can be found at  
[www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

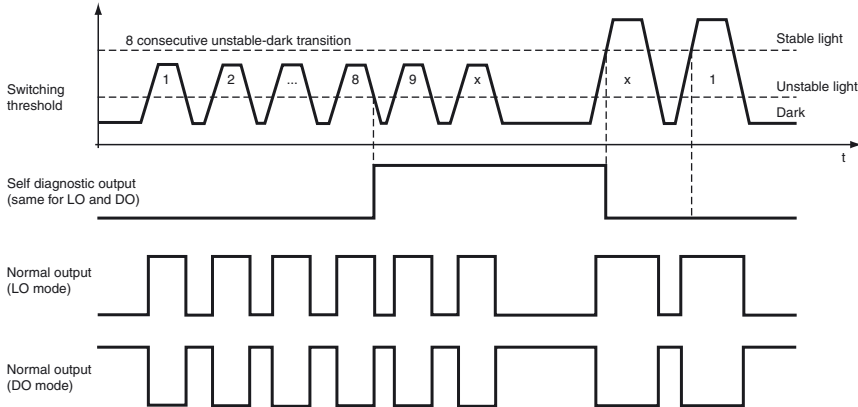
Curves/Diagrams

Self-Diagnostic definition and operation:

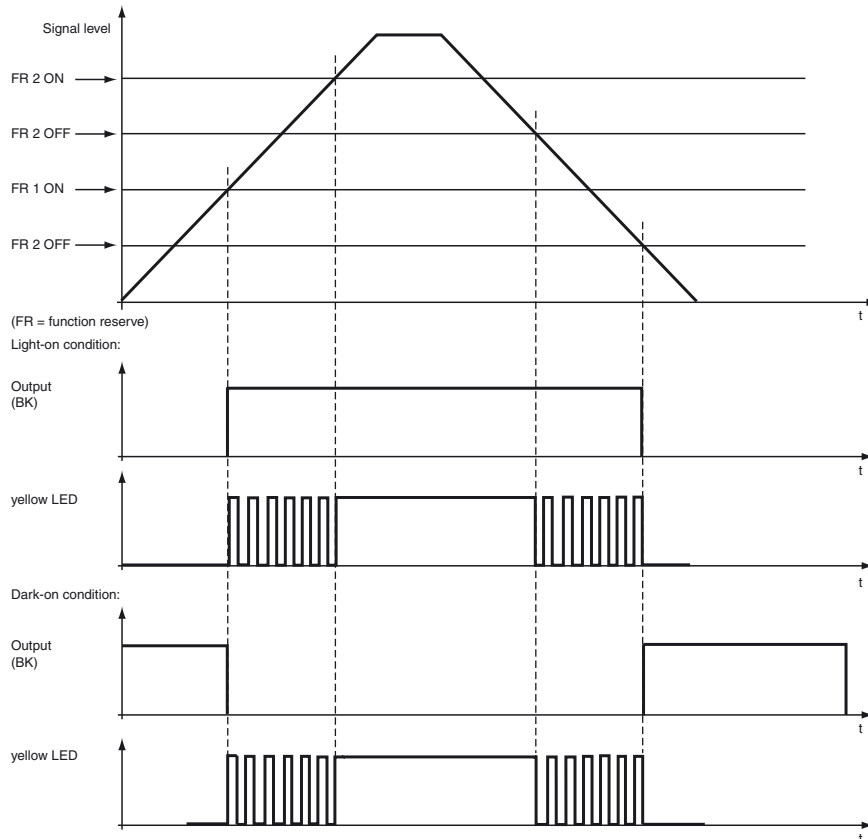
5 sec. rule for light-ON (LO) and dark-ON (DO) mode



8 cyc. rule for light-ON (LO) and dark-ON (DO) mode



LED indicators and operating chart:



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| Head shape             | Moun-ting       | Model number         | Core | Detection distance | Fiber cross section | minimum Object size | Fiber optic length | Bend radius | Dimensions | Special features  |
|------------------------|-----------------|----------------------|------|--------------------|---------------------|---------------------|--------------------|-------------|------------|---|
| Cylindrical            | dia. 2 mm       | KLE-C01-1.0-2.0-K105 | PMMA | 20 mm              | 0.25 mm             | 0.05 mm             | 2 m                | min. 10 mm  |            |   |
| Cylindrical            | dia. 1.5 mm     | KLE-C01-1.0-2.0-K107 | PMMA | 20 mm              | 0.25 mm             | 0.05 mm             | 2 m                | min. 10 mm  |            |   |
| Cylindrical            | dia. 1.5 mm     | KLE-C04-1.0-2.0-K108 | PMMA | 70 mm              | 4 x 0.25 mm         | 0.12 mm             | 2 m                | min. 15 mm  |            |   |
| Cylindrical            | dia. 2 mm       | KLE-C04-1.0-2.0-K106 | PMMA | 70 mm              | 4 x 0.25 mm         | 0.05 mm             | 2 m                | min. 15 mm  |            |   |
| <b>Highly flexible</b> |                 |                      |      |                    |                     |                     |                    |             |            |   |
| Threaded               | M3              | KHE-C01-1.0-2.0-K125 | PMMA | 50 mm              | 0.5 mm              | 0.15 mm             | 2 m                | min. 1 mm   |            | only 1 mm Bend radius   |
| Threaded               | M3              | KHE-C01-2.2-2.0-K122 | PMMA | 200 mm             | 1 mm                | 0.25 mm             | 2 m                | min. 2 mm   |            | only 2 mm Bend radius   |
| Threaded               | M4 x 0.7 / M2.6 | KHE-C01-1.0-2.0-K124 | PMMA | 50 mm              | 0.5 mm              | 0.15 mm             | 2 m                | min. 1 mm   |            | 4 x high Detection range with Auxiliary lens K-LA01/ 8 x high Detection range with Auxiliary lens K-LA06 Side view / Periscope with K-LA02/ only 1 mm Bend radius |
| Threaded               | M6              | KHE-C01-2.2-2.0-K121 | PMMA | 200 mm             | 1.0 mm              | 0.25 mm             | 2 m                | min. 2 mm   |            | only 2 mm Bend radius   |
| Cylindrical            | dia. 1.5 mm     | KHE-C01-1.0-2.0-K139 | PMMA | 50 mm              | 0.5 mm              | 0.05 mm             | 2 m                | min. 1 mm   |            | only 1 mm Bend radius   |
| Cylindrical            | dia. 3 mm       | KHE-C01-2.2-2.0-K126 | PMMA | 50 mm              | 0.5 mm              | 0.15 mm             | 2 m                | min. 1 mm   |            | only 1 mm Bend radius   |
| Cylindrical            | dia. 3 mm       | KHE-C01-2.2-2.0-K123 | PMMA | 200 mm             | 1 mm                | 0.25 mm             | 2 m                | min. 2 mm   |            | only 2 mm Bend radius   |

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| Head shape            | Mounting       | Model number          | Core  | Detection distance | Fiber cross section | minimum Object size | Fiber optic length | Bend radius | Dimensions | Special features   |
|-----------------------|----------------|-----------------------|-------|--------------------|---------------------|---------------------|--------------------|-------------|------------|--|
| Threaded              | M3             | LHE 00-1.1-1.0-14M3   | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| Threaded              | M4 x 0.7 /M2.6 | LHE 00-1.1-1.0-20M4   | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | 4 x high Detection range with Auxillary lens K-LA01/<br>8 x high Detection range with Auxillary lens K-LA06<br>Side view / Periscope with K-LA02/<br>- 40°C ... + 180 °C |
| Threaded              | M6             | LHE 00-1.1-1.0-G      | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| Cylindrical           | dia. 1.5 mm    | LHE 00-1.1-1.0-10C1.5 | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| Cylindrical           | dia. 3 mm      | LHE 00-1.1-1.0-15C3   | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| Right angle           | Bar 3 mm       | LHE 00-1.1-1.0-WC3    | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| Right angle           | Bar 10 mm      | LHE 00-1.1-1.0-K9     | glass | 195 mm             | 1.1 mm              |                     | 1 m                | 4 mm static |            | - 40°C ... + 180 °C  |
| <b>Special design</b> |                |                       |       |                    |                     |                     |                    |             |            |  |
| Rectangular           | 2 x 2.2 mm     | KHE-A01-1.0-2.0-K138  | PMMA  | 25 mm              | 0.5 mm              | 0.05 mm             | 2 m                | min. 1 mm   |            | only 1 mm Bend radius  |
| Slot                  | 2 x 3.2 mm     | KLE-C02-1.25-2.0-K134 | PMMA  | 5 mm               | 2 x 0.25 m          |                     | 2 m                | min. 10 mm  |            |  |
| Slot                  | 2 x 3.2 mm     | KLE-C02-1.25-2.0-K135 | PMMA  | 10 mm              | 2 x 0.25 m          |                     | 2 m                | min. 10 mm  |            |  |

**Selection table - diffuse mode fiber optic cable**

| Head shape     | Mounting | Model number | Core | Detection distance | Fiber cross-section | Fiber optic length | Bend radius | Dimensions | Special features |
|----------------|----------|--------------|------|--------------------|---------------------|--------------------|-------------|------------|------------------|
| Highly precise |          |              |      |                    |                     |                    |             |            |                  |

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| Head shape     | Mounting       | Model number         | Core | Detection distance | Fiber cross-section                        | Fiber optic length | Bend radius | Dimensions | Special features   |
|----------------|----------------|----------------------|------|--------------------|--|--------------------|-------------|------------|--|
| Threaded       | M3 x 0.5       | KLR-C02-1.0-2.0-K75  | PMMA | 4 mm               | 2 x 0.25 m                                 | 2 m                | min. 10 mm  |            |  |
| Threaded       | M4 x 0.7       | KLR-C02-1.0-2.0-K73  | PMMA | 4 mm               | 2 x 0.25 mm                                | 2 m                | min. 10 mm  |            |  |
| Threaded       | M3 x 0.5       | KLR-C04-1.25-2.0-K78 | PMMA | 8 mm               | 4 x 0.25 m                                 | 2 m                | min. 15 mm  |            |  |
| Cylindrical    | dia. 2.0 mm    | KLR-C02-1.0-2.0-K91  | PMMA | 4 mm               | 2 x 0.25 mm                                | 2 m                | min. 10 mm  |            |  |
| Cylindrical    | dia. 3.0 mm    | KLR-C02-1.0-2.0-K90  | PMMA | 4 mm               | 2 x 0.25 mm                                | 2 m                | min. 10 mm  |            |  |
| Cylindrical    | dia. 1.5 mm    | KLR-C04-1.25-2.0-K80 | PMMA | 8 mm               | 4 x 0.25 mm                                | 2 m                | min. 15 mm  |            |  |
| Cylindrical    | dia. 1.5 mm    | KLR-C04-1.0-2.0-K133 | PMMA | 7 mm               | 4 x 0.25 mm                                | 2 m                | min. 15 mm  |            |  |
| Cylindrical    | dia. 2.0 mm    | KLR-C02-1.0-2.0-K87  | PMMA | 25 mm              | 2 x 0.5 mm                                 | 2 m                | min. 15 mm  |            |  |
| Cylindrical    | dia. 3.0 mm    | KLR-C04-1.25-2.0-K79 | PMMA | 8 mm               | 4 x 0.25 mm                                | 2 m                | min. 15 mm  |            |  |
| <b>Coaxial</b> |                |                      |      |                    |  |                    |             |            |  |
| Threaded       | M3 x 0.5       | KLR-C09-1.25-2.0-K76 | PMMA | 30 mm              | 1 x 0.5 mm Emitter<br>9 x 0.25 mm Receiver | 2 m                | min. 15 mm  |            | only 0.5 mm light spot at 8 mm with auxiliary lens K-LA03  |
| Threaded       | M4 x 0.7 /M2.6 | KLR-C09-1.25-2.0-K74 | PMMA | 30 mm              | 1 x 0.5 mm Emitter<br>9 x 0.25 mm Receiver | 2 m                | min. 15 mm  |            | only 0.7 mm light spot at 10 mm with auxiliary lens K-LA04/ 2 x high Detection range with Auxiliary lens K-LA01/ 3 x high Detection range with Auxiliary lens K-LA06 |

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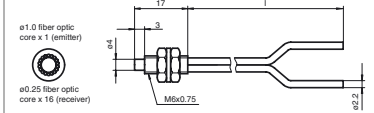
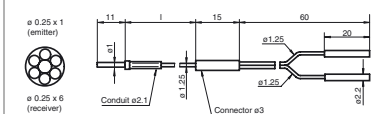
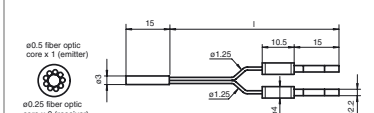
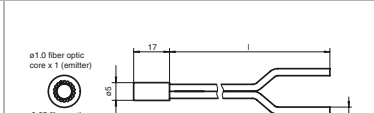
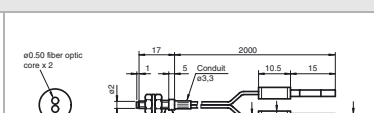
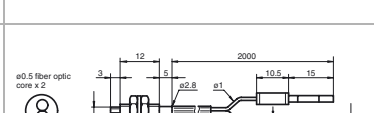
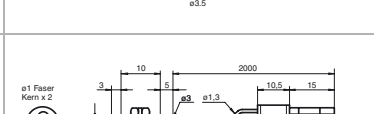

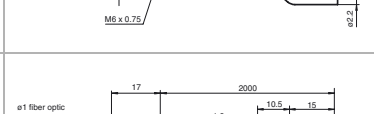
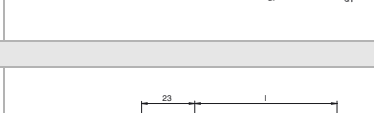
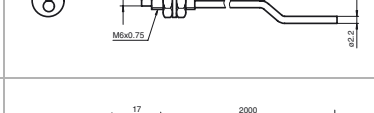
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| Head shape             | Mounting    | Model number         | Core | Detection distance | Fiber cross-section                         | Fiber optic length | Bend radius | Dimensions   | Special features |
|------------------------|-------------|----------------------|------|--------------------|---|--------------------|-------------|--|------------------|
| Threaded               | M6 x 0.75   | KLR-C16-2.2-2.0-K71  | PMMA | 85 mm              | 1 x 1.0 mm Emitter<br>16 x 0.25 mm Receiver | 2 m                | min. 25 mm  |    |                  |
| Cylindrical            | dia. 1.0 mm | KLR-C06-1.25-2.0-K81 | PMMA | 20 mm              | 1 x 0.25 mm Emitter<br>6 x 0.25 mm Receiver | 2 m                | min. 15 mm  |    |                  |
| Cylindrical            | dia. 3.0 mm | KLR-C09-1.25-2.0-K77 | PMMA | 30 mm              | 1 x 0.5 mm Emitter<br>9 x 0.25 mm Receiver  | 2 m                | min. 15 mm  |    |                  |
| Cylindrical            | dia. 5.0 mm | KLR-C16-2.2-2.0-K72  | PMMA | 85 mm              | 1 x 1.0 mm Emitter<br>16 x 0.25 mm Receiver | 2 m                | min. 25 mm  |    |                  |
| <b>Highly flexible</b> |             |                      |      |                    |   |                    |             |  |                  |
| Threaded               | M3          | KHR-C02-1.0-2.0-K96  | PMMA | 12 mm              | 2 x 0.5 mm                                  | 2 m                | min. 1 mm   |    |                  |
| Threaded               | M4          | KHR-C02-1.0-2.0-K95  | PMMA | 12 mm              | 2 x 0.5 mm                                  | 2 m                | min. 1 mm   |   |                  |
| Threaded               | M4          | KHR-C02-1.3-2.0-K92  | PMMA | 60 mm              | 2 x 1.0 mm                                  | 2 m                | min. 2 mm   |  |                  |
| Threaded               | M6          | KHR-C02-2.2-2.0-K94  | PMMA | 12 mm              | 2 x 0.5 mm                                  | 2 m                | min. 1 mm   |  |                  |
| Cylindrical            | dia. 3.0 mm | KHR-C02-1.3-2.0-K93  | PMMA | 60 mm              | 2 x 1.0 mm                                  | 2 m                | min. 2 mm   |  |                  |
| <b>Flexible</b>        |             |                      |      |                    |   |                    |             |  |                  |
| Threaded               | M6 x 0.75   | KLR-C02-2.2-2.0-K70  | PMMA | 80 mm              | 2 x 1.0 mm                                  | 2 m                | min. 25 mm  |  |                  |
| Cylindrical            | dia. 3.0 mm | KLR-C02-1.3-2.0-K86  | PMMA | 80 mm              | 2 x 1.0 mm                                  | 2 m                | min. 25 mm  |  |                  |

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| Head shape                         | Mounting     | Model number          | Core | Detection distance | Fiber cross-section | Fiber optic length | Bend radius | Dimensions | Special features      |
|------------------------------------|--------------|-----------------------|------|--------------------|---------------------|--------------------|-------------|------------|-----------------------|
| Cylindrical                        | dia. 5.0 mm  | KLR-C02-2.2-2.0-K85   | PMMA | 80 mm              | 2 x 1.0 mm          | 2 m                | min. 25 mm  |            |                       |
| <b>Bendable tip</b>                |              |                       |      |                    |                     |                    |             |            |                       |
| Threaded                           | M3 x 0.5     | KLR 00-1.0-2.0-K58    | PMMA | 20 mm              |                     | 2 m                | min. 15 mm  |            |                       |
| Threaded                           | M6           | KLR 00-2.2-2.0-K57    | PMMA | 60 mm              |                     | 2 m                | min. 15 mm  |            |                       |
| <b>High detection range</b>        |              |                       |      |                    |                     |                    |             |            |                       |
| Threaded                           |              | KLR-C02-2.2,2-0-K146  | PMMA | 150 mm             |                     | 2 m                | mind. 40 mm |            |                       |
| Threaded                           |              | KLR-C10-1,25-2,0-K144 | PMMA | 30 mm              |                     | 2 m                | mind. 15 mm |            |                       |
| <b>Side view / Periscope</b>       |              |                       |      |                    |                     |                    |             |            |                       |
| Threaded                           | M6           | KHR-C02-2.2-2.0-K131  | PMMA | 60 mm              | 2 x 1.0 mm          | 2 m                | min. 2 mm   |            | only 2 mm Bend radius |
| Threaded                           | dia. 5.0 mm  | KHR-C02-1.0-2.0-K132  | PMMA | 15 mm              | 2 x 0.5 mm          | 2 m                | min. 1 mm   |            | only 1 mm Bend radius |
| <b>Array</b>                       |              |                       |      |                    |                     |                    |             |            |                       |
| Rectangular                        | 3 x M2 x 0.5 | KLR-A18-1.3-2.0-K82   | PMMA | 25 mm              | 18 x 0.25 mm        | 2 m                | min. 25 mm  |            |                       |
| Rectangular                        | 3 x M3 x 0.5 | KLR-A32-2.2-2.0-K83   | PMMA | 35 mm              | 10.85 mm            | 2 m                | min. 25 mm  |            |                       |
| Rectangular                        | 2 x 3.2 mm   | KLR-A32-2.2-2.0-K141  | PMMA | 35 mm              | 16 x 0.25 mm        | 2 m                | mind. 25 mm |            |                       |
| <b>High temperature resistance</b> |              |                       |      |                    |                     |                    |             |            |                       |
| Threaded                           | M6           | KHTR-C02-2.2-2.0-K88  | PMMA | 80 mm              | 2 x 1.0 mm          | 2 m                | min. 25 mm  |            | -55°C ... +115°C      |

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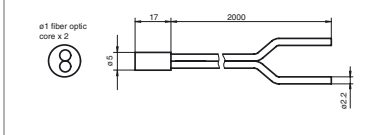
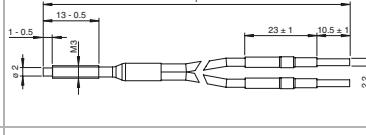
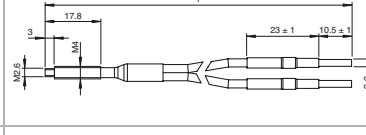
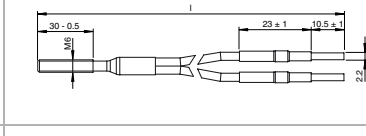
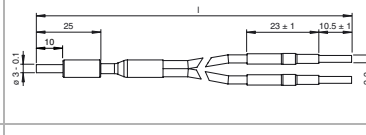
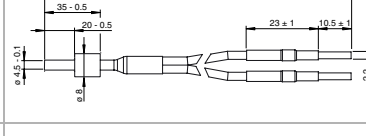
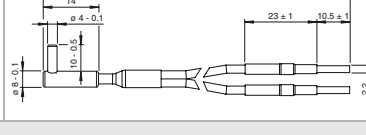
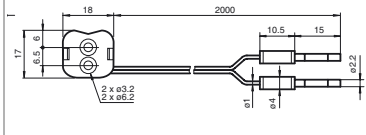
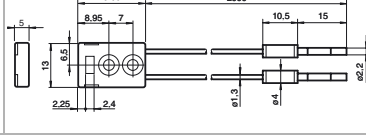
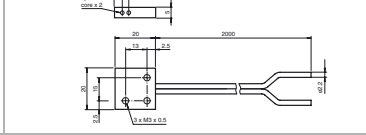
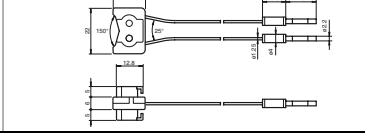
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| Head shape            | Mounting     | Model number          | Core  | Detection distance | Fiber cross-section | Fiber optic length | Bend radius | Dimensions   | Special features   |
|-----------------------|--------------|-----------------------|-------|--------------------|---------------------|--------------------|-------------|--|--|
| Cylindrical           | dia. 5.0 mm  | KHTR-C02-2.2-2.0-K89  | PMMA  | 80 mm              | 2 x 1.0 mm          | 2 m                | min. 25 mm  |    | - 55°C ... + 115°C   |
| <b>Sturdy design</b>  |              |                       |       |                    |                     |                    |             |  |  |
| Threaded              | M3 x 0.5     | LHR 00-0.8-1.0-14M3   | glass | 40 mm              | 0.8 mm              | 1 m                | 4 mm static |    | - 40°C ... + 180°C   |
| Threaded              | M4 x 0.7     | LHR 00-0.8-1.0-20M4   | glass | 40 mm              | 0.8 mm              | 1 m                | 4 mm static |    | - 40°C ... + 180°C   |
| Threaded              | M6           | LHR 00-1.1-1.0-G      | glass | 70 mm              | 1.1 mm              | 1 m                | 4 mm static |    | - 40°C ... + 180°C   |
| Cylindrical           | dia. 3 mm    | LHR 00-1.1-1.0-Z1     | glass | 70 mm              | 1.1 mm              | 1 m                | 4 mm static |   | - 40°C ... + 180°C   |
| Cylindrical           | dia. 4.5 mm  | LHR 00-1.1-1.0-K1     | glass | 70 mm              | 1.1 mm              | 1 m                | 4 mm static |  | - 40°C ... + 180°C   |
| Right angle           | 10 mm Bar    | LHR 00-1.1-1.0-K9     | glass | 70 mm              | 1.1 mm              | 1 m                | 4 mm static |  | - 40°C ... + 180°C   |
| <b>Special design</b> |              |                       |       |                    |                     |                    |             |  |  |
| Rectangular           |              | KHR-C02-1.0-2.0-K129  | PMMA  | 5 ~ 10 mm          | 2 x 0.5 mm          | 2 m                | min. 1 mm   |  | <b>crossed beam to background blanking</b><br><b>only 1 mm Bend radius</b> |
| Rectangular           |              | KLR-C02-1.3-2.0-K130  | PMMA  | 1 ~ 8 mm           | 2 x 1.0 mm          | 2 m                | min. 25 mm  |  | <b>crossed beam to background blanking</b>                                 |
| Rectangular           | 3 x M3 x 0.5 | KHR-A02-2.2-2.0-K127  | PMMA  | 50 mm              | 2 x 1.0 mm          | 2 m                | min. 2 mm   |  | <b>only 2 mm Bend radius</b>   |
| Rectangular           |              | KLR-C02-1.25-2.0-K128 | PMMA  | 4~26 mm            | 2 x 0.5 mm          | 2 m                | min. 15 mm  |  | <b>Level measurement</b>   |

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| Head shape  | Mounting | Model number          | Core | Detection distance | Fiber cross-section | Fiber optic length | Bend radius | Dimensions | Special features |
|-------------|----------|-----------------------|------|--------------------|---------------------|--------------------|-------------|------------|------------------|
| Cylindrical |          | KLR-C02-1,25-2,0-K147 | PMMA |                    |                     | 2 m                | mind. 40 mm |            | Fluid detection  |

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