



Model Number

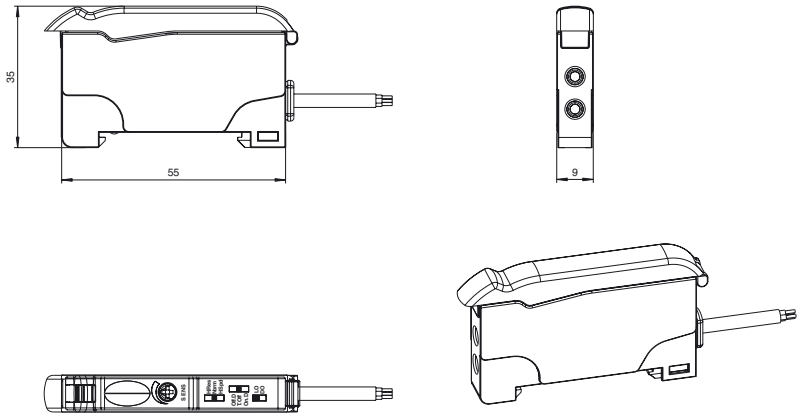
SU18-16/40a/110/115/126a

Fiber optic sensor
with fixed cable

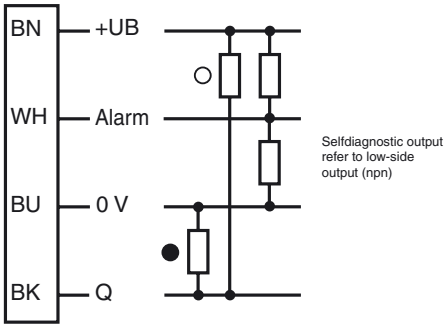
Features

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

Dimensions



Electrical connection



○ = Light on
● = Dark on

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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		
$MTTF_d$		690 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operating display		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)
Function display		LED yellow: static illumination switching state, flashes when falling short of the stability control
Controls		Potentiometer for setting sensitivity slide switch 2 positions: light/dark switching slide switch 3 positions: timer function - timer off, on delay 40 ms, off-delay 40 ms slide switch 3 positions: operating mode - normal, high speed , high resolution
Electrical specifications		
Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	≤ 30 mA
Output		
Output of the pre-fault indication		1 push-pull output NPN/PNP , short-circuit protected
Switching type		light/dark on, switchable
Signal output		1 push-pull output NPN/PNP , short-circuit protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA , resistive load
Voltage drop	U_d	≤ 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: 250 Hz
Response time		Standard mode: 160 µs , High speed mode: 80 µs , High resolution: 2 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		
Protection degree		IP50
Connection		2 m PVC cable, 4 x 0,14 mm^2
Material		
Housing		PC
Mass		45 g
Compliance with standards and directives		
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Accessories

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

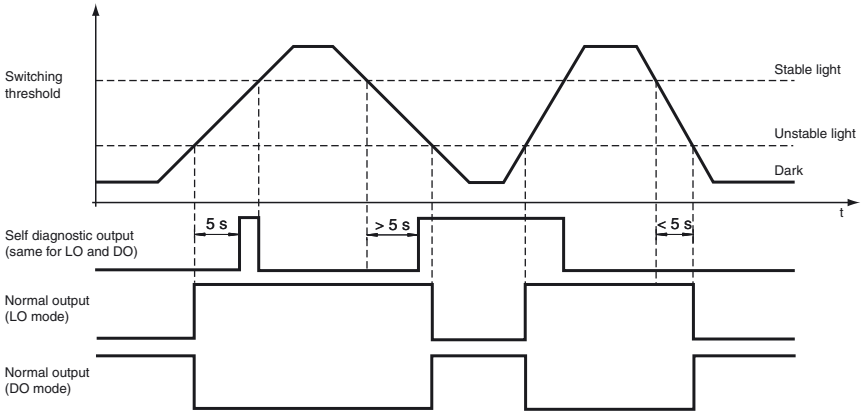
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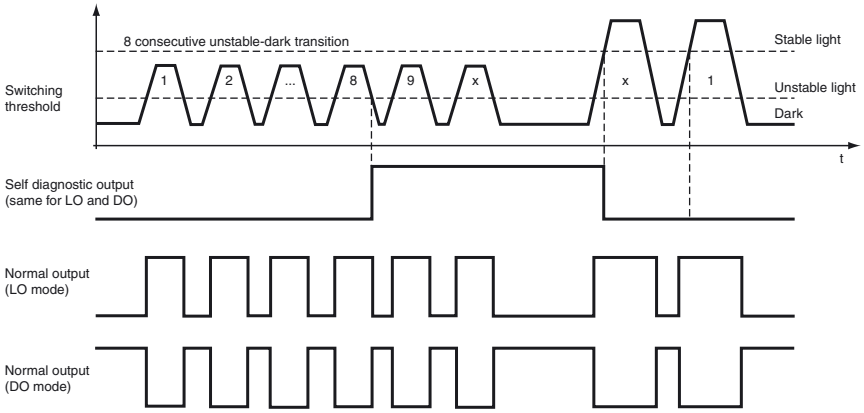
Curves/Diagrams

Self-Diagnostic definition and operation:

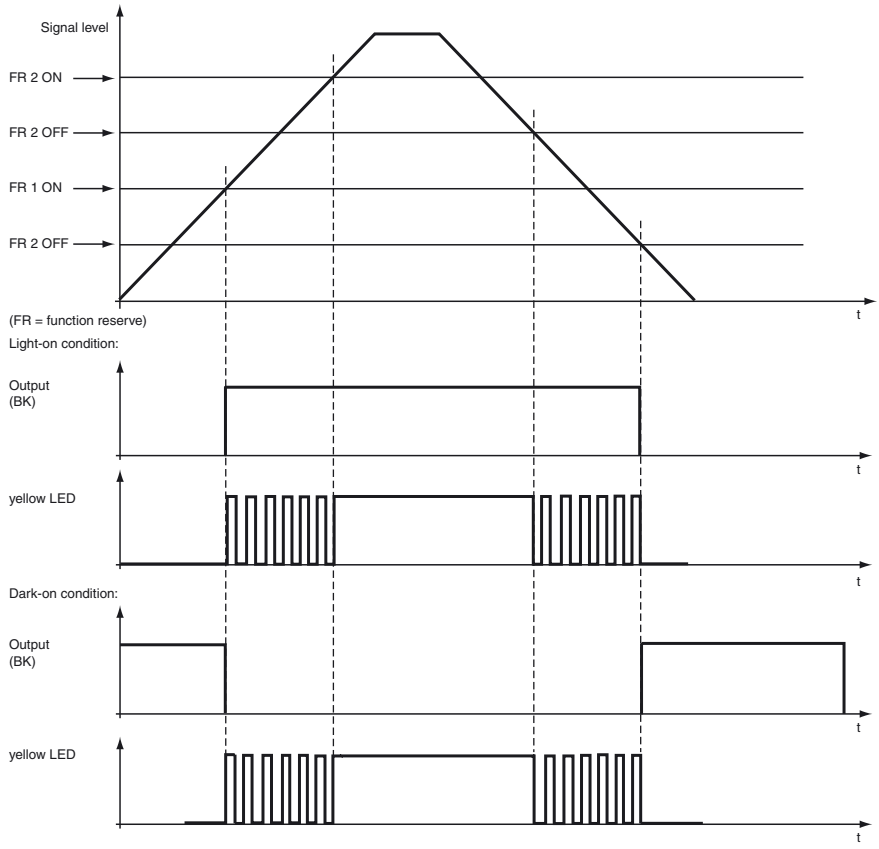
5 sec. rule for light-ON (LO) and dark-ON (DO) mode



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

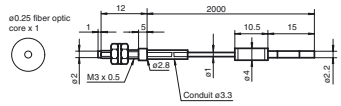
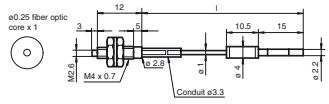
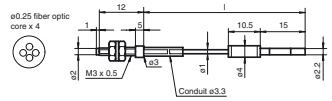
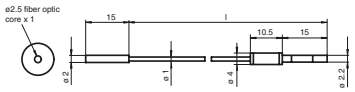
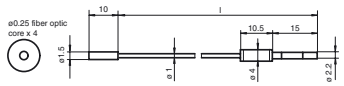
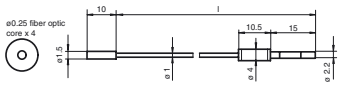
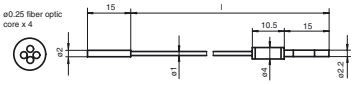
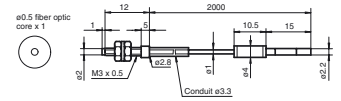
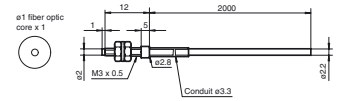
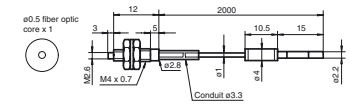
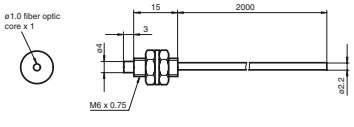


LED indicators and operating chart:



Selection table - thru-beam fiber optic cable

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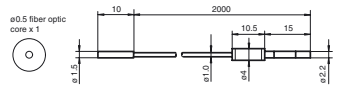
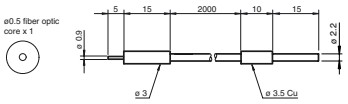
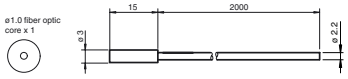
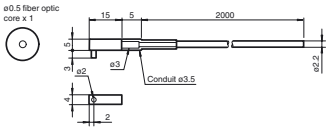
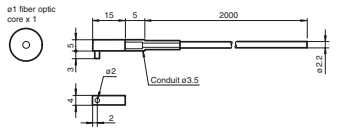
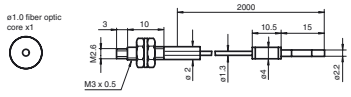
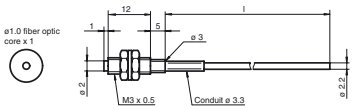
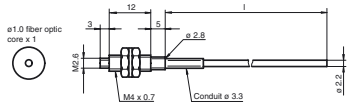
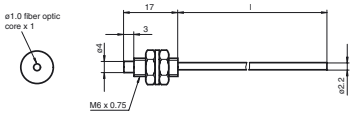
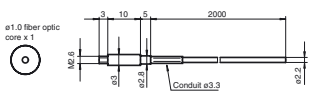
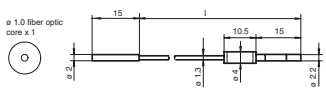
Head shape	Mounting	Model number	Core	Detection distance	Fiber cross section	minimum Object size	Fiber optic length	Bend radius	Dimensions	Special features
Highly precise										
Threaded	M3	KLE-C01-1.0-2.0-K120	PMMA	20 mm	0.25 mm	0.05 mm	2 m	min. 10 mm		
Threaded	M4	KLE-C01-1.0-2.0-K119	PMMA	20 mm	0.25 mm	0.05 mm	2 m	min. 10 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
Threaded	M3 x 0.5	KLE-C04-1.0-2.0-K104	PMMA	70 mm	4 x 0.25 mm	0.12 mm	2 m	min. 15 mm		
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		
Highly flexible										
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

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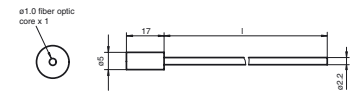
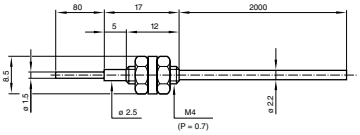
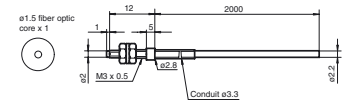
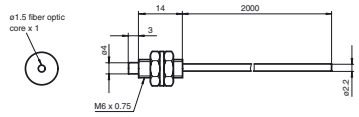
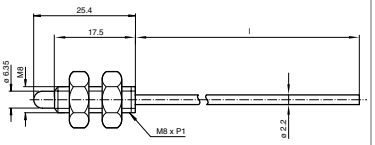
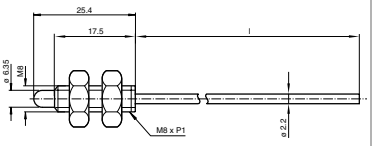
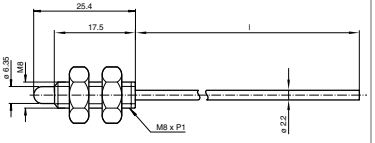
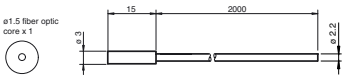
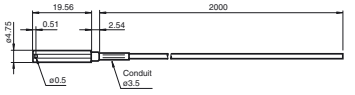
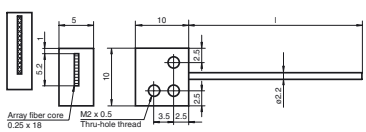
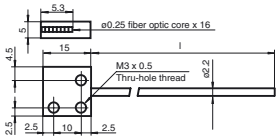
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Head shape	Mount-ting	Model number	Core	Detection distance	Fiber cross section	minimum Object size	Fiber optic length	Bend radius	Dimensions	Special features
Cylindrical	dia. 1.5 mm	KHE-C01-1.0-2.0-K139	PMMA	50 mm	0.5 mm	0.05 mm	2 m	min. 1 mm		only 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
Right angle	dia. 15 x 5	KHE-C01-2.2-2.0-K137	PMMA	35 mm	0.5 mm	0.15 mm	2 m	min. 1 mm		only 1 mm Bend radius
Right angle	dia. 15 x 5	KHE-C01-2.2-2.0-K140	PMMA	150 mm	1 mm	0.25 mm	2 m	min. 2 mm		only 2 mm Bend radius
Flexible										
Threaded	M3 x 0.5 /M2.6	KLE-C01-1.3-2.0-K112	PMMA	200 mm	1 mm	0.25 mm	2 m	min. 25 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
Threaded	M3 x 0.5	KLE-C01-2.2-2.0-K103	PMMA	220 mm	1 mm	0.25 mm	2 m	min. 25 mm		
Threaded	M4 x 0.7 /M2.6	KLE-C01-2.2-2.0-K102	PMMA	220 mm	1 mm	0.25 mm	2 m	min. 25 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
Threaded	M6	KLE-C01-2.2-2.0-K100	PMMA	220 mm	1 mm	0.32 mm	2 m	min. 25 mm		
Threaded	M2.6	KLE-C01-2.2-2.0-K113	PMMA	200 mm	1 mm	0.25 mm	2 m	min. 25 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
Cylindrical	dia. 2 mm	KLE-C01-1.3-2.0-K114	PMMA	220 mm	1 mm	0.25 mm	2 m	min. 25 mm		

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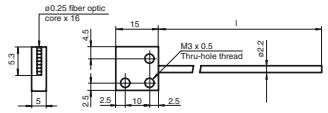
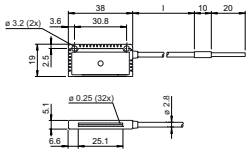
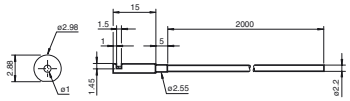
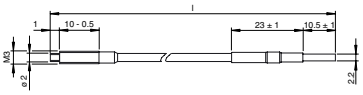
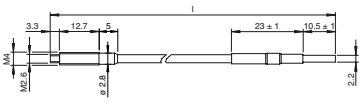
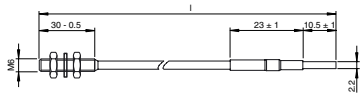
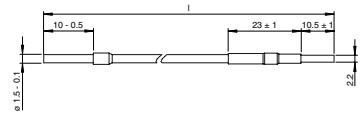
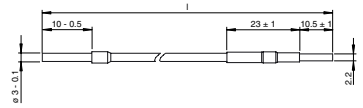
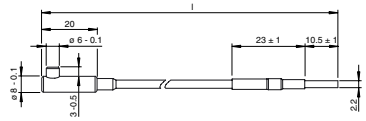
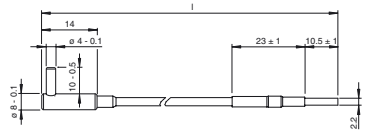
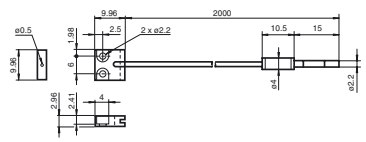
Head shape	Mounting	Model number	Core	Detection distance	Fiber cross section	minimum Object size	Fiber optic length	Bend radius	Dimensions	Special features
Cylindrical	dia. 5 mm	KLE-C01-2.2-2.0-K101	PMMA	220 mm	1 mm	0.32 mm	2 m	min. 25 mm		
Bendable tip										
Threaded	M4	KLE 00-2.2-2.0-K55	PMMA	228 mm	1 mm		2 m	min. 25 mm		
High detection range										
Threaded	M3	KLE-C01-2.2-2.0-K116	PMMA	450 mm	1.5 mm	0.35 mm	2 m	min. 40 mm		
Threaded	M6	KLE-C01-2.2-2.0-K115	PMMA	450 mm	1.5 mm	0.35 mm	2 m	min. 40 mm		
Threaded	M8 x 1	FEF-PLT1	PMMA	6000 mm calculated value related on 2 m Fiber optic length	1 mm		1 m	min. 25 mm		Narrow beam
Threaded	M8 x 1	FEF-PLT1-L2	PMMA	6000 mm calculated value related on 2 m Fiber optic length	1 mm		2 m	min. 25 mm		Narrow beam
Threaded	M8 x 1	FEF-PLT1-L5	PMMA	6000 mm calculated value related on 2 m Fiber optic length	1 mm		4 m	min. 25 mm		Narrow beam
Cylindrical	dia. 3 mm	KLE-C01-2.2-2.0-K117	PMMA	400 mm	1.5 mm	0.35 mm	2 m	min. 25 mm		
Side view / Periscope										
Cylindrical	dia. 4.75 mm	KHE-C01-2.2-2.0-K136	PMMA	50 mm	0.5 mm	0.15 mm	2 m	min. 1 mm		only 1 mm Bend radius
Array										
Rectangular	3 x M2 x 0.5	KLE-A16-2.2-2.0-K109	PMMA	100 mm	16 x 0.25 mm	0.05 mm	2 m	min. 25 mm		
Rectangular	3 x M3 x 0.5	KLE-A16-2.2-2.0-K110	PMMA	100 mm	16 x 0.25 mm	0.05 mm	2 m	min. 25 mm		

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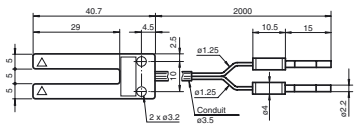
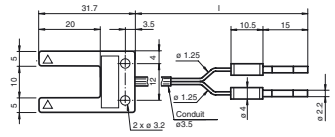
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Head shape	Mounting	Model number	Core	Detection distance	Fiber cross section	minimum Object size	Fiber optic length	Bend radius	Dimensions	Special features
Rectangular	3 x M3 x 0.5	KLE-A16-2.2-2.0-K111	PMMA	100 mm	16 x 0.25 mm	0.05 mm	2 m	min. 25 mm		
Rectangular	2 x 3.2 mm	KLE-A32-2,2-2,0-K142	PMMA	35 mm	32 x 0.25 mm		2 m	min. 25 mm		
High temperature resistance										
Cylindrical	dia. 3 mm	KHTE-C01-2.2-2.0-K118	PMMA	115 mm	1 mm	0.35 mm	2 m	min. 25 mm		- 55°C ... + 115 °C
Sturdy design										
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 Auxiliary lens K-LA01/ 8 x high Detection range with Auxiliary lens K-LA06 Side view / Periscope with K-LA02/ - 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
Special design										
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

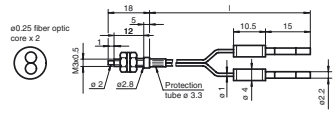
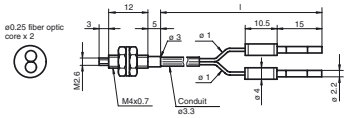
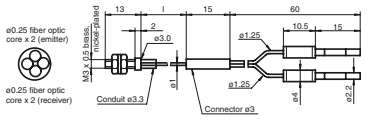
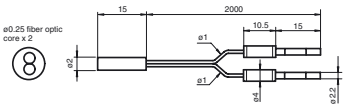
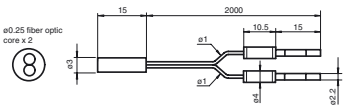
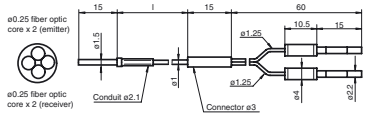
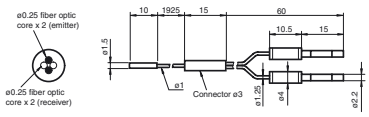
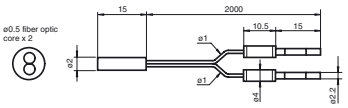
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Head shape	Mounting	Model number	Core	Detection distance	Fiber cross section	minimum Object size	Fiber optic length	Bend radius	Dimensions	Special features
Slot	2 x 3.2 mm	KLE-C02-1.25-2.0-K134	PMMA	5 mm	2 x 0.25 mm		2 m	min. 10 mm		
Slot	2 x 3.2 mm	KLE-C02-1.25-2.0-K135	PMMA	10 mm	2 x 0.25 mm		2 m	min. 10 mm		

Selection table - diffuse mode fiber optic cable

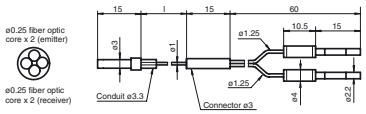
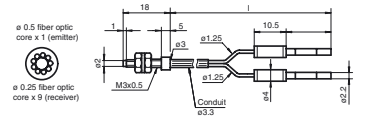
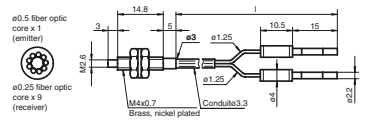
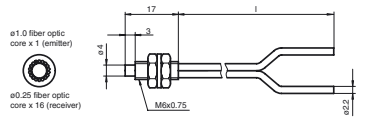
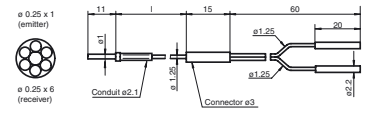
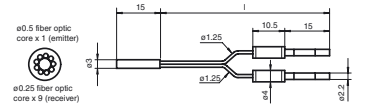
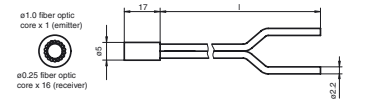
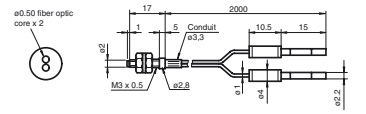
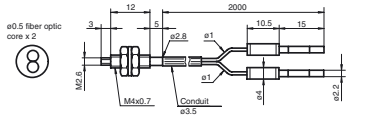
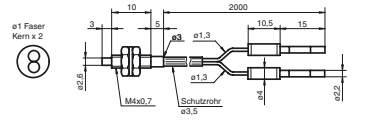
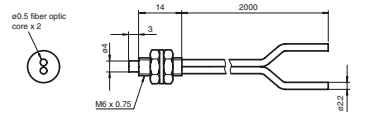
Head shape	Mounting	Model number	Core	Detection distance	Fiber cross-section	Fiber optic length	Bend radius	Dimensions	Special features
Highly precise									
Threaded	M3 x 0.5	KLR-C02-1.0-2.0-K75	PMMA	4 mm	2 x 0.25 m	2 m	min. 10 mm		
Threaded	M4 x 0.7	KLR-C02-1.0-2.0-K73	PMMA	4 mm	2 x 0.25 mm	2 m	min. 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		

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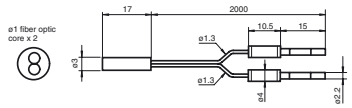
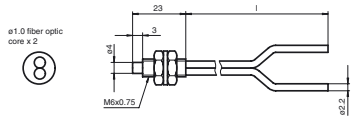
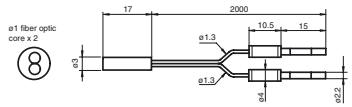
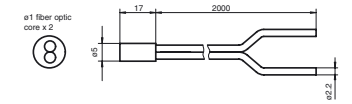
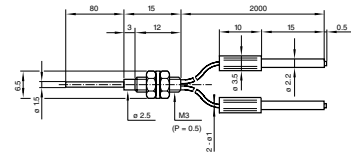
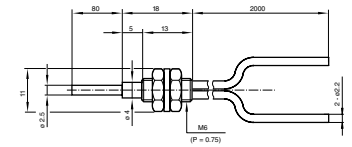
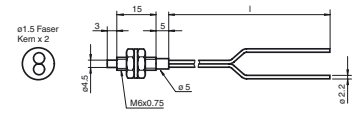
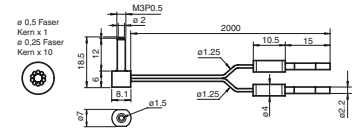
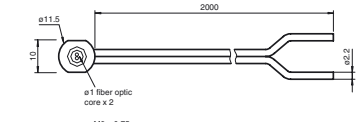
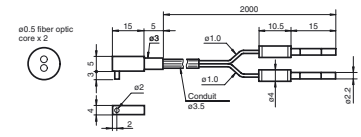
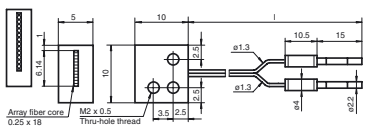
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Head shape	Mounting	Model number	Core	Detection distance	Fiber cross-section	Fiber optic length	Bend radius	Dimensions	Special features
Cylindrical	dia. 3.0 mm	KLR-C04-1.25-2.0-K79	PMMA	8 mm	4 x 0.25 mm	2 m	min. 15 mm		
Coaxial									
Threaded	M3 x 0.5	KLR-C09-1.25-2.0-K76	PMMA	30 mm	1 x 0.5 mm Emitter 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 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
Threaded	M6 x 0.75	KLR-C16-2.2-2.0-K71	PMMA	85 mm	1 x 1.0 mm Emitter 16 x 0.25 mm Recei-ver	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 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 9 x 0.25 mm Recei-ver	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 16x 0.25 mm Receiver	2 m	min. 25 mm		
Highly flexible									
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		

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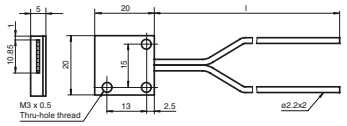
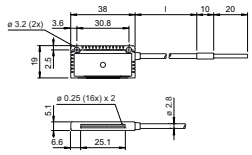
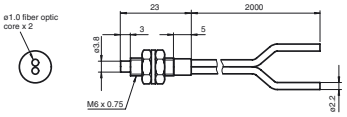
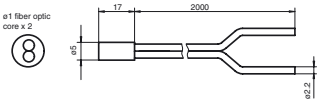
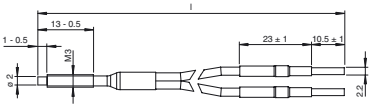
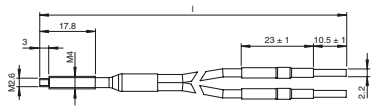
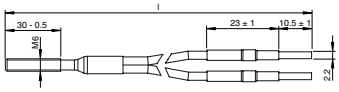
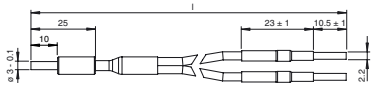
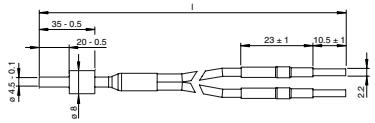
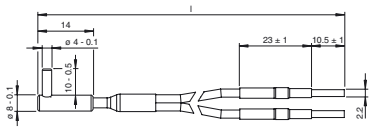
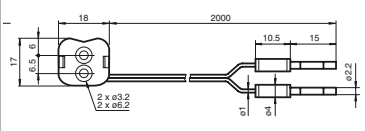
Head shape	Mounting	Model number	Core	Detection distance	Fiber cross-section	Fiber optic length	Bend radius	Dimensions	Special features
Cylindrical	dia. 3.0 mm	KHR-C02-1.3-2.0-K93	PMMA	60 mm	2 x 1.0 mm	2 m	min. 2 mm		
Flexible									
Threaded	M6 x 0.75	KLR-C02-2.2-2.0-K70	PMMA	80 mm	2 x 1.0 mm	2 m	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		
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		
Bendable tip									
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		
High detection range									
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		
Side view / Periscope									
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
Array									
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		

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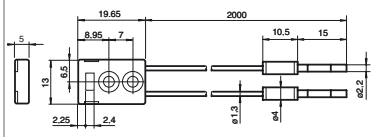
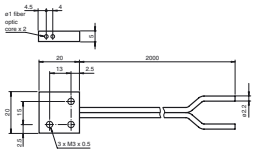
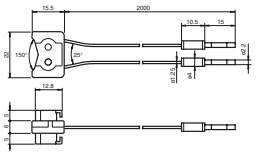
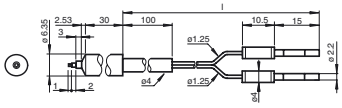
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Head shape	Mounting	Model number	Core	Detection distance	Fiber cross-section	Fiber optic length	Bend radius	Dimensions	Special features
Rectangular	3 x M3 x 0.5	KLR-A32-2.2-2.0-K83	PMMA	35 mm	10.85 mm	2 m	min. 25 mm		
Rectangular	2 x 3.2 mm	KLR-A32-2,2-2,0-K141	PMMA	35 mm	16 x 0.25 mm	2 m	mind. 25 mm		
High temperature resistance									
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
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
Sturdy design									
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
Special design									
Rectangular		KHR-C02-1.0-2.0-K129	PMMA	5 ~ 10 mm	2 x 0.5 mm	2 m	min. 1 mm		crossed beam to background blanking only 1 mm Bend radius

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Head shape	Mounting	Model number	Core	Detection distance	Fiber cross-section	Fiber optic length	Bend radius	Dimensions	Special features
Rectangular		KLR-C02-1.3-2.0-K130	PMMA	1 ~ 8 mm	2 x 1.0 mm	2 m	min. 25 mm		crossed beam to background blanking
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		only 2 mm Bend radius
Rectangular		KLR-C02-1.25-2.0-K128	PMMA	4~26 mm	2 x 0.5 mm	2 m	min. 15 mm		Level measurement
Cylindrical		KLR-C02-1,25-2,0-K147	PMMA			2 m	mind. 40 mm		Fluid detection

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