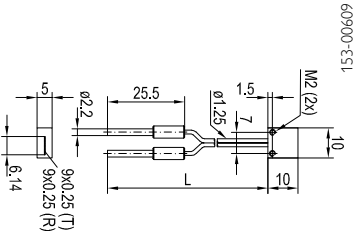
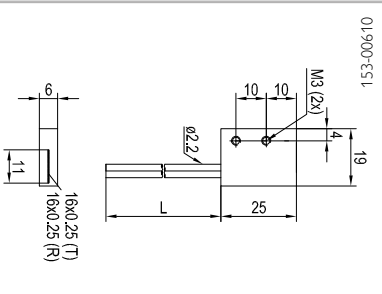


Fibre-optic cables – light strips

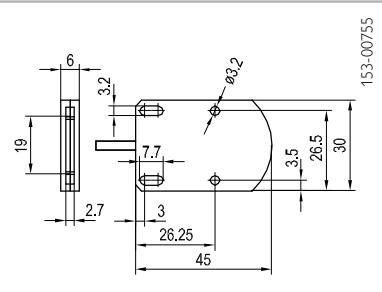
Fibre-optic cable	Proximity sensor (T) Photoelectric sensor (L)	Typical range	Light exit	Special features	For fibre-optic sensors
LLK1QRR10x10-PE-2m	T	Up to 15 mm	Axial	- Small design for restricted spaces - Precise switching behaviour on lateral approach	FL 70 / FL 20
LLK2QRR19x25-PE-2m	T	Up to 15 mm	Axial	Precise switching behaviour on lateral approach	FL 70 / FL 20
LLK2SLR10-PE-2m	L	Up to 2000 mm	Axial	- Small-part detection to 0.5 mm - Wide detection area - Long range	FL 70 / FL 20
K2Q-12	L	Up to 550 mm	Axial	Small design for restricted spaces	FL 70 / FL 20
30 QL 0,2x10/...-Si	L	Up to 500 mm	Axial	10 mm light strip width - Robust design	FMS 18 / FMS 30 / FAV 30
30 QL 0,2x20/...-Si	L	Up to 500 mm	Axial	20 mm light strip width - Robust design	FMS 18 / FMS 30 / FAV 30
30 QL 0,2x30/...-Si	L	Up to 500 mm	Axial	30 mm light strip width - Robust design	FMS 18 / FMS 30 / FAV 30
30 QL 0,2x40/...-Si	L	Up to 500 mm	Axial	40 mm light strip width - Long range - Robust design	FMS 18 / FMS 30 / FAV 30

LLK1QRR10x10-PE-2m fibre-optic cable						Highlights						
						• Photoelectric proximity sensor • For area monitoring or position detection • Precise switching behaviour on lateral approach • Elongated light exit (0.25 x 6.14 mm²) • Fibre length individually cuttable • For FL 70/FL 20 devices						
Design	Light exit	FL 70 typ. scanning distance (mm) Standard / Fine / High	FL 20 typ. scanning distance (mm) Default setting	Fibre arrange- ment	Suitable for ancillary lens	Core fibre Ø (mm) (T = Transmitter; R = Receiver) Material	Sheath material	Ambient temperature (rigid installation)	Fibre bending radius (mm)	Cable length	Collar bushing / head	LS (mm)
Cross-section converter line	1-15 / 1-15 / 1-15	1-15	See drawing	–	9 x 0.25 (T) 9 x 0.25 (R) PMMA	Polyethylene (PE)	-40 ... +70 °C	25	2 m Cuttable	10 x 10 x 5 mm M2 Brass, nickel-plated	–	

Part number	Article number
LLK1QRR10x10-PE-2m	750-11003

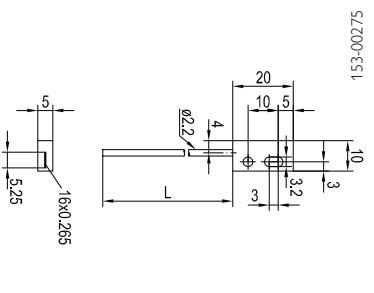
LLK2QRR19x25-PE-2m fibre-optic cable						Highlights					
						• Photoelectric proximity sensor • For area monitoring or position detection • Precise switching behaviour on lateral approach • Elongated light exit (0.25 x 11 mm²) • Fibre length individually cuttable • For FL 70/FL 20 devices					
Design	FL 70	FL 20	Fibre	Suitable for	Core fibre Ø (mm)	Sheath material	Ambient	Fibre	Cable	Collar bushing /	LS (mm)
Light exit	typ. scanning distance (mm)	typ. scanning distance (mm)	arrangement	ancillary lens	(T = Transmitter; R = Receiver) Material		temperature (rigid installation)	bending radius (mm)	length	head	
	Standard / Fine / High	Default setting									
Cross-section converter line	1-15 / 1-15 / 1-15	1-15	See drawing	–	16 x 0.25 (T) 16 x 0.25 (R) PMMA	Polyethylene (PE)	-40 ... +70 °C	25	2 m Cuttable	19 x 25 x 6 mm M3 Brass, nickel-plated	–

Part number	Article number
LLK2QRR19x25-PE-2m	750-11004

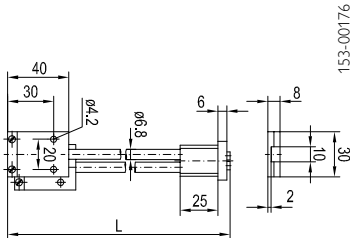
LLK2SLR10-PE-2m fibre-optic cable						Highlights					
						• Through-beam photoelectric sensor • Wide detection range (15 mm) • Small-part detection to 0.5 mm • Flexible mounting possibilities • For measuring thickness and position • Long range • High-quality glass optics • Parallel beam guidance • Robust metal housing • For FL 70/FL 20 devices					
Design	FL 70	FL 20	Fibre	Suitable for	Core fibre Ø (mm)	Sheath material	Ambient	Fibre	Cable	Collar bushing /	LS (mm)
Light exit	typ. scanning distance (mm)	typ. scanning distance (mm)	arrangement	ancillary lens	(T = Transmitter; R = Receiver) Material		temperature (rigid installation)	bending radius (mm)	length	head	
	Standard / Fine / High	Default setting									
Axial	600-1500 / 0-600 / 1300-2000	1-15	–	–	1 x 0.25 PMMA Glass optics	Polyethylene (PE)	-20 ... +60 °C	25	2 m Cuttable	See drawing	–

Part number	Article number
LLK2SLR10-PE-2m	952-50001

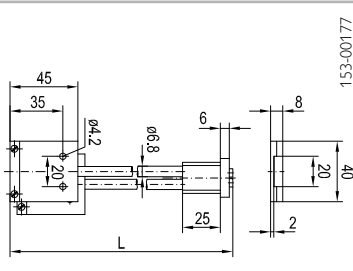
Fibre-optic cables – light strips

K2Q-12 fibre-optic cable						Highlights					
						- Through-beam photoelectric sensor - Light strip for position detection or area monitoring - Fibre length individually cuttable - For FL 70/FL 20 devices					
Design	FL 70	FL 20	Fibre	Suitable for	Core fibre Ø (mm)	Sheath material	Ambient	Fibre	Cable	Collar	LS (mm)
Light exit	typ. scanning distance (mm)	typ. scanning distance (mm)	arrangement	for ancillary lens	(T = Transmitter; R = Receiver)		temperature (rigid installation)	bending radius (mm)	length	bushing / head	
	Standard / Fine / High	Default setting			Material						
Cross-section converter	250 / 155 / 550	130	See drawing	–	16 x 0.265 (T) 16 x 0.265 (R) PMMA	Polyethylene (PE)	-40 ... +70 °C	15	2 m Cuttable	20 x 10 mm Brass, nickel-plated	–

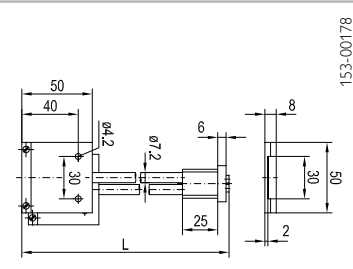
Part number	Article number
K2Q-12	952-50000

30 QL 0,2x10/...-Si fibre-optic cable					Highlights					
					• Through-beam photoelectric sensor • Cross-section converter • 10 mm light exit • Robust design with silicone sheath • -20 ... +160 °C • For FMS/FAV 30 devices					
Fibre arrangement	FAV 30	Operating range	Core fibre Ø (mm)	Sheath material	Ambient temperature	Bending radius	Cable length	Collar bushing /	LS	
Light exit	Distance: transmitter – receiver (mm)	(mm)	(T=Transmitter; R=Receiver)		(rigid installation)	(mm)	(m)	head	(mm)	
			Material							
Cross-section converter	50 - 80	6	0.2 x 10 (T) / 0.2 x 10 (R) Glass	Silicone (Si)	-20 ... +160 °C	25	See Selection Table	See drawing	–	

Length (m)	Part number	Article number
0.5	30 QL 0,2x10/500-Si	974-09621
1	30 QL 0,2x10/1000-Si	974-09617

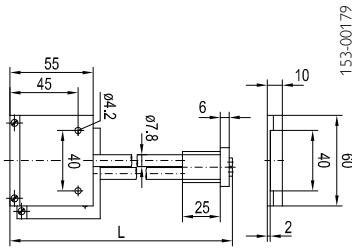
30 QL 0,2x20/...-Si fibre-optic cable					Highlights				
					- Through-beam photoelectric sensor - Cross-section converter 20 mm light exit - Robust design with silicone sheath -20 ... +160 °C - For FMS/FAV 30 devices				
Fibre arrangement Light exit	FAV 30 Distance: transmitter – receiver (mm)	Operating range (mm)	Core fibre Ø (mm) (T=Transmitter; R=Receiver) Material	Sheath material	Ambient temperature (rigid installation)	Bending radius (mm)	Cable length (m)	Collar bushing / head	LS (mm)
Cross-section converter	50 - 200	12	0,2 x 20 (T) / 0,2 x 20 (R) Glass	Silicone (Si)	-20 ... +160 °C	25	See Selection Table	See drawing	–

Length (m)	Part number	Article number
0,5	30 QL 0,2x20/500-Si	974-09622
1	30 QL 0,2x20/1000-Si	974-09618

30 QL 0,2x30/...-Si fibre-optic cable					Highlights				
					- Through-beam photoelectric sensor - Cross-section converter 30 mm light exit - Robust design with silicone sheath -20 ... +160 °C - For FMS/FAV 30 devices				
Fibre arrangement Light exit	FAV 30 Distance: transmitter – receiver (mm)	Operating range (mm)	Core fibre Ø (mm) (T=Transmitter; R=Receiver) Material	Sheath material	Ambient temperature (rigid installation)	Bending radius (mm)	Cable length (m)	Collar bushing / head	LS (mm)
Cross-section converter	100 - 300	18	0,2 x 30 (T) / 0,2 x 30 (R) Glass	Silicone (Si)	-20 ... +160 °C	25	See Selection Table	See drawing	–

Length (m)	Part number	Article number
0,5	30 QL 0,2x30/500-Si	974-09623
1	30 QL 0,2x30/1000-Si	974-09619

Fibre-optic cables – light strips

30 QL 0,2x40/...-Si fibre-optic cable					Highlights				
					• Through-beam photoelectric sensor • Cross-section converter • 40 mm light exit • Robust design with silicone sheath • -20 ... 160 °C • For FMS/FAV 30 devices				
Fibre arrangement Light exit	FAV 30 Distance: transmit- ter – receiver (mm)	Operating range (mm)	Core fibre Ø (mm) (T=Transmitter; R=Receiver) Material	Sheath material	Ambient temperature (rigid installation)	Bending radius (mm)	Cable length (m)	Collar bushing / head	LS (mm)
Cross-section converter	220 - 500	24	0.2 x 40 (T) / 0.2 x 40 (R) Glass	Silicone (Si)	-20 ... +160 °C	25	See Selection Table	See drawing	–

Length (m)	Part number	Article number
0.5	30 QL 0,2x40/500-Si	974-09624
1	30 QL 0,2x40/1000-Si	974-09620