

- Response temperature 400 – 1000 °C
- For 3 separate optical cable and optics
- Individual evaluation or redundant function
- Switching outputs (can be parameterized)
- Standard-function, offset-function, jump-detection
- Alarm function pollution / overtemperature
- Test input / external teach function
- Parameterization with RS 485 + Software
- Modbus RTU
- Terminal chamber



Product Characteristics

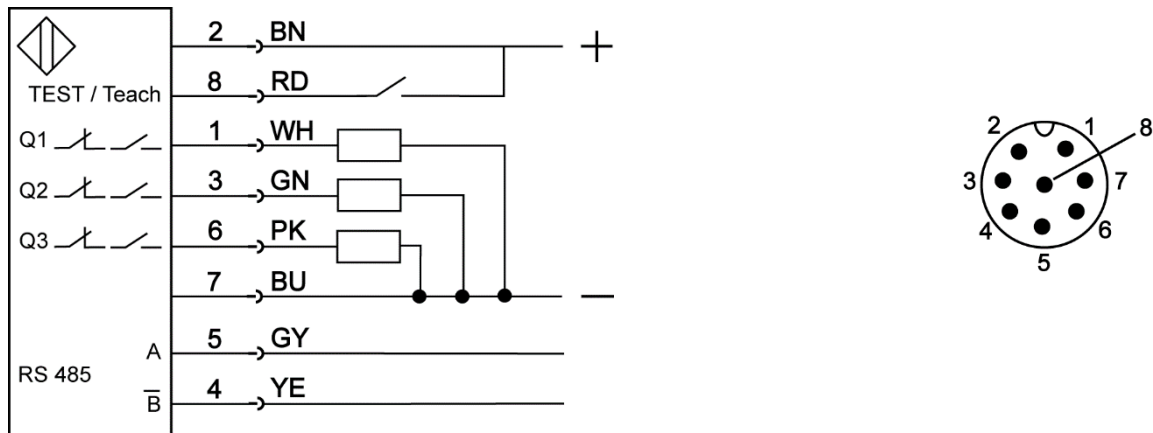
Type	OXLD 3L41.3A GK S8
Connection	Art.-No.
Plug S8 (M12x1 A)	7603C
Application	Redundant material detection of hot objects, temperature control, hot rolling, pressing, forging, sintering, heat treatment

Technical Data

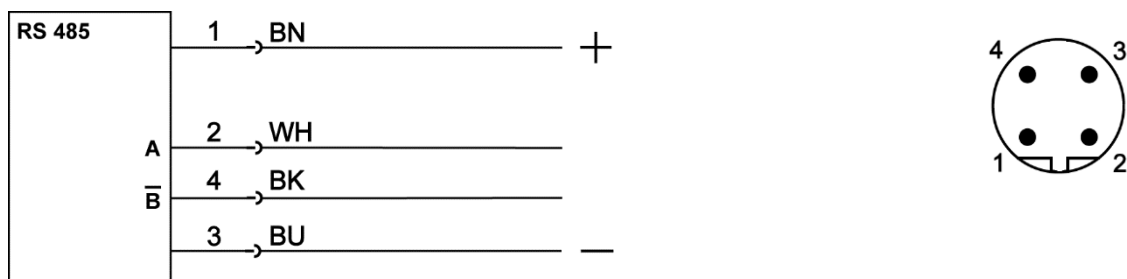
Response temperature (with 2 m fiber optic LLK 2 und optic OAA 404)	400, 450, 500, 550, 600, 650, 700, 750, 800, 900, 1000 °C (factory setting = 550 °C)
Response temperature adjustable	yes (with software or teach-in)
Switching hysteresis	approx. 25 K
Software functions	configuration of switching outputs, response temperature standard, offset or jump detection, alarm function, redundancy function, status display, teach-in, internal temperature
Standard-function	response temperature can be parameterized for each output
Offset-function	divergent response and switch-off temperature can be parameterized for each output
Jump-detection	temperature rise / fall signalization
Alarm function	output Q3 signals pollution / overtemperature
Test function (object detection simulation)	outputs Q1 and Q2 are switching
Redundancy function	Output switches when object is detected by 1 of 3, 2 of 3 or 3 of 3 optics
Supply voltage	10 - 55 V DC
Ripple	max. 15 %
Current consumption	< 15 mA
Digital communication	RS-485 MODBUS RTU
Output 1 (object)	PNP normally open / normally closed (can be parameterized)
Output 3 (object)	PNP normally open / normally closed (can be parameterized)
Output 3 (object / alarm)	PNP normally open / normally closed (can be parameterized)
Continuous current	0 - 400 mA
Short-circuit protection	yes, pulsing
Voltage drop	< 2,5 V
Readiness delay	≤ 300 ms
Response time / switching frequency	≤ 0,3 ms / 1500 Hz
Ambient temperature	-10 ... +70 °C
Protection class	IP 67
Housing material	aluminium/stainless steel
Functional display	LED

Connection

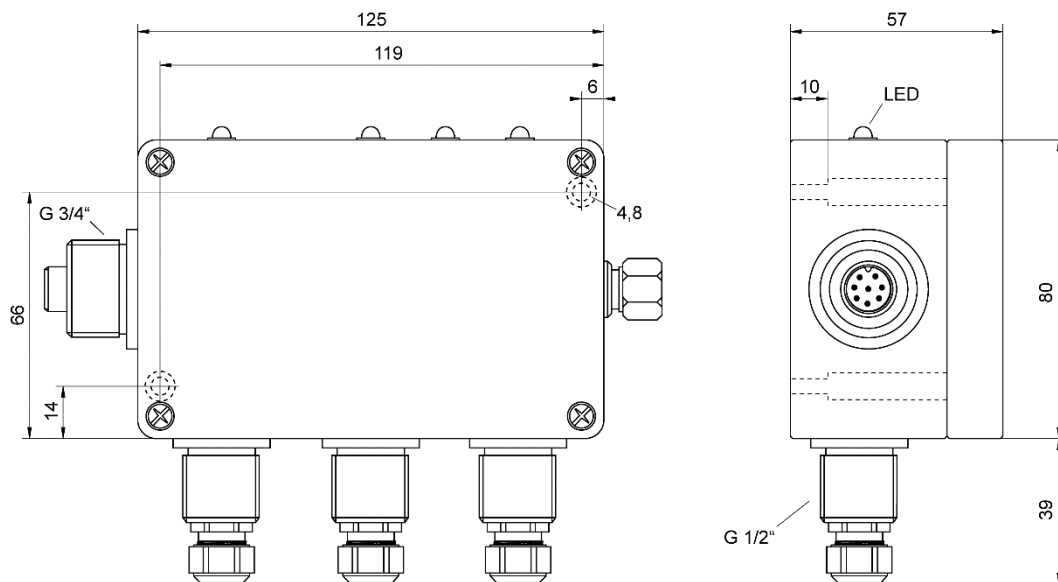
Stecker S8



Plug S6 only for Parameterization

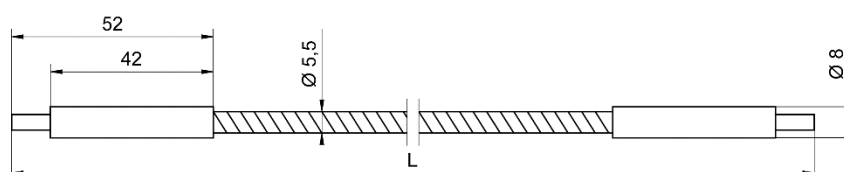


Dimension (mm)



Optical Fiber Cable (not in scope of supply)

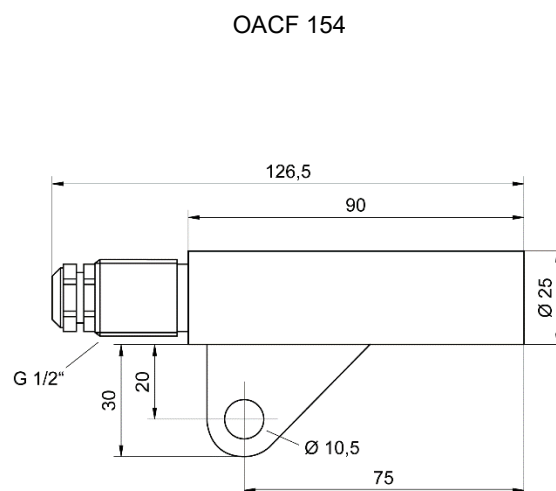
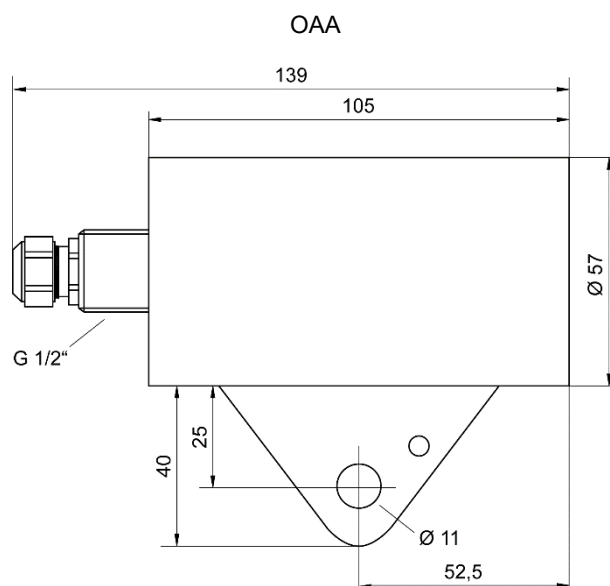
	Type	Art.-No.
1 m optical fiber cable up to 290°C ambient temperature	LLK 1	6436C
2 m optical fiber cable up to 290°C ambient temperature	LLK 2	6436F
4 m optical fiber cable up to 290°C ambient temperature	LLK 4	6436I
5 m optical fiber cable up to 290°C ambient temperature	LLK 5	6436J
6 m optical fiber cable up to 290°C ambient temperature	LLK 6	6436M
8 m optical fiber cable up to 290°C ambient temperature	LLK 8	6436K
10 m optical fiber cable up to 290°C ambient temperature	LLK 10	6436L
12 m optical fiber cable up to 290°C ambient temperature	LLK 12	6436N
15 m optical fiber cable up to 290°C ambient temperature	LLK 15	6436Q
20 m optical fiber cable up to 290°C ambient temperature	LLK 20	6436P

Dimension Optical Fiber Cable (mm)

Optic (not in scope of supply)

	Type	Art.-No.
Optic big 1,5° viewing angle, up to 150 °C ambient temperature	OAA 154	6049B
Optic big 1,5° viewing angle, up to 290 °C ambient temperature	OAA 154H	6049A
Optic big 2° viewing angle, up to 150 °C ambient temperature	OAA 204	6043A
Optic big 4° viewing angle, up to 150 °C ambient temperature	OAA 404	6050A
Optic big 7° viewing angle, up to 150 °C ambient temperature	OAA 703	6048A
Optic big 2° x 25° viewing angle, up to 150 °C ambient temperature	OAA 264	6047A
Optic small 1,5° viewing angle, up to 290 °C ambient temperature	OACF 154	6036O
Optic small 1,5° viewing angle, optical side up to 600 °C ambient temperature	OACF 154H	6036R
Optic small 2° viewing angle, up to 290 °C ambient temperature	OACF 204	6036K
Optic small 7° viewing angle, up to 290 °C ambient temperature	OACF 704	6036L
Holder for optical fiber cable 22° viewing angle, up to 290 °C ambient temperature	OACF 671	6037H

Field of view

Optic	1 m	2 m	3 m	4 m	5 m
OAA 154	40 mm	65 mm	100 mm	135 mm	170 mm
OAA 204	40 mm	75 mm	130 mm	185 mm	240 mm
OAA 404	70 mm	130 mm	210 mm	290 mm	370 mm
OAA 703	70 mm	170 mm	270 mm	370 mm	470 mm
OAA 264	40 x 350 mm	75 x 950 mm	130 x 1550 mm	185 x 2150 mm	240 x 2750 mm
OACF 154	25 mm	45 mm	80 mm	115 mm	150 mm
OACF 204	40 mm	95 mm	150 mm	205 mm	260 mm
OACF 704	70 mm	170 mm	270 mm	370 mm	470 mm
OACF 671	380 mm	765 mm	1150 mm	1535 mm	1920 mm

Dimension Optic (mm)

Accessories (in scope of supply)

	Type	Art.-No.
-	-	-

Accessories (not in scope of supply)

	Type	Art.-No.
Connection cable 2 m, 8 wire, with straight female plug S8 (M12 x 1 A)	ST S8-2	9850O
Connection cable 5 m, 8 wire, with straight female plug S8 (M12 x 1 A)	ST S8-5	9850N
Connection cable 10 m, 8 wire, with straight female plug S8 (M12 x 1 A)	ST S8-10	9850S
Swivel stand for optic OAA	HM 2	9816B
Swivel stand for optic OACF	HM 4	9816D
Pilot light attachment for adjustment	DAK 308	6913G
Adapter for Pilot light attachment for optic OAA	OL 26	9828H
Adapter for Pilot light attachment for optic OACF	OL 28	9828K
Tubus for optic OAA	OL 19	9828A
Air purge attachment for optic OAA	OL 34	9828Q
Tube for air purge attachment OL 34	OL 36	9828S
Air purge attachment for optic OACF	OL 44	9829B
Adapter G1/2" to M20 internal thread (protective tube mounting of fiber optic cable)	HG 6	9855F
Appropriate protective tube sets for fiber optic cable available		
Interface converter for parameterization		
Interface converter RS485, female plug S4 (M12 x 1 A) 5-wire to USB (Internal 24 V power supply for sensor)	SIC 485U	9861B
Adapter cable S6 (M12 x 1 A) female plug 4-pole to S4 (M12 x 1 A) plug 5-pole, 2 m cable (suitable for SIC 485U)	ST S6/4 S4/5-2	9851D
Interface converter RS485, plug Sub D 9-pole to USB (External power supply necessary)	SIC 485UD	9861E

Further information

	Document
Protection hoses	P46E
Manual	BDA_OXLD_3L41_D_E