

- Through beam, retroreflective and diffuse sensor
- Operating mode, adjustable
- For separate optical cable and optics
- Optical fiber cable and optic up to 290 °C ambient temperature
- 3 switching outputs (can be parameterized)
- On and off delay
- Alarm function pollution, overtemperature
- Parameterization with RS 485 + Software
- Modbus RTU
- Terminal chamber



Product Characteristics

Type	LXUD 600.3A GV
Connection	Art.-No.
Terminal chamber	5063A
Application	Material detection of cold and hot objects

Technical Data

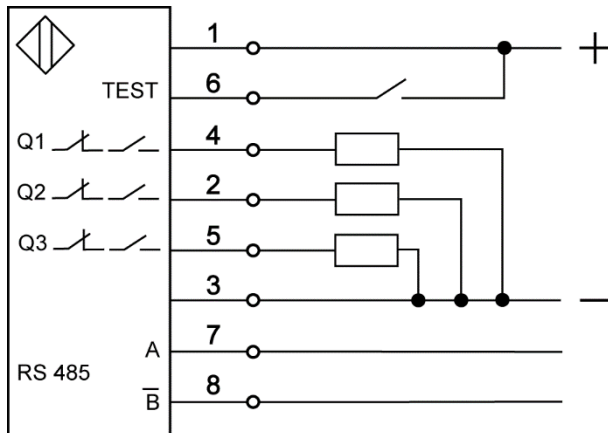
Function	through beam, retroreflective or diffuse sensor (depending on adjustment)
Range adjustable	250 m / 42,5 m / 1,8 m (through beam / retroreflective sensor* / diffuse sensor**)
Operation range adjustable	200 m / 37,5 m / 1 m (through beam / retroreflective sensor* / diffuse sensor**)
Light type	invisible infrared light
Software functions	operating mode, configuration of switching outputs, on/off delay, alarm function, status display, teach-in, internal temperature
Alarm function	pollution, overtemperature
Adjustment aid	optical with LED, software
Supply voltage	12 - 55 V DC
Ripple	max. 15 %
Current consumption	< 40 mA
Digital communication	RS-485 MODBUS RTU
Test function	yes
Output 1 (object / overtemperature)	PNP normally open / normally closed (can be parameterized)
Output 2 (object / overtemperature)	PNP normally open / normally closed (can be parameterized)
Output 3 (object / overtemperature / pollution)	PNP normally open / normally closed (can be parameterized)
On / off delay adjustable	0 – 60000 ms
Continuous current	0 - 400 mA
Short-circuit protection	yes, pulsing
Voltage drop	< 2,5 V
Readiness delay	≤ 50 ms
Response time / switching frequency	≤ 10 ms / 1000 Hz
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Housing material	aluminium / stainless steel
Functional display	LED

* referred to the OR 03 reflector 100 x 100 mm

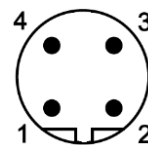
** referred to a Kodak grey card 90% remission

Connection

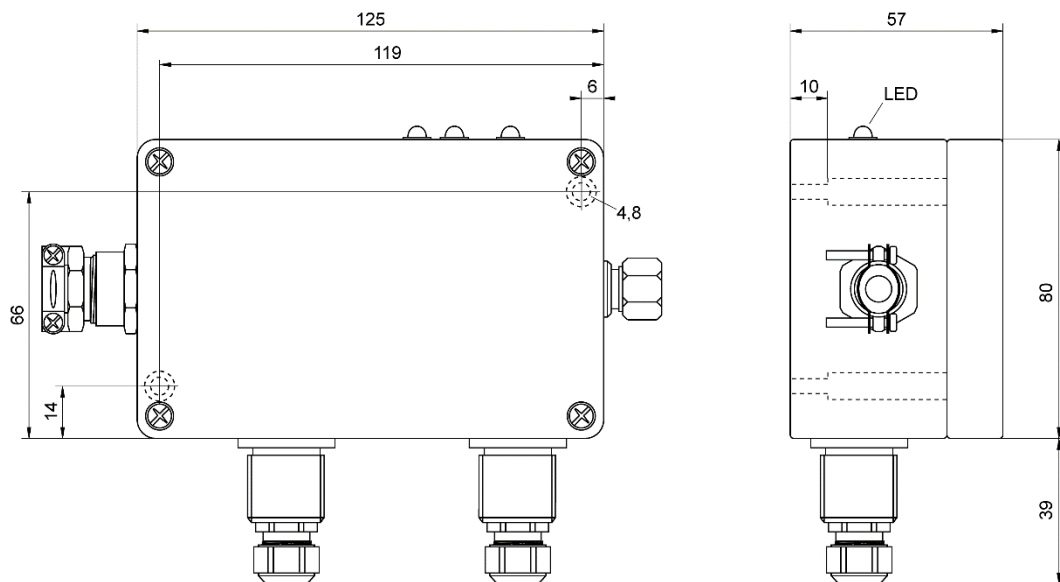
Terminal chamber



Plug S6 only for Parameterization

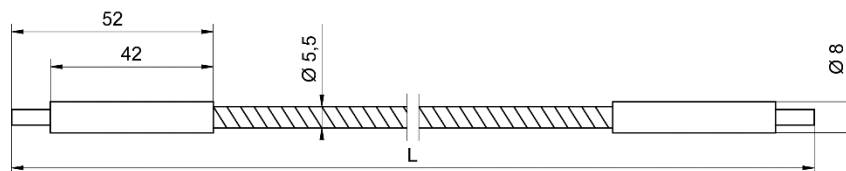


Dimension (mm)

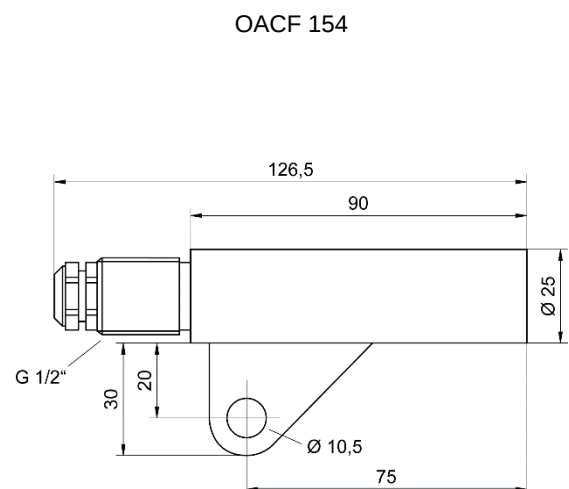
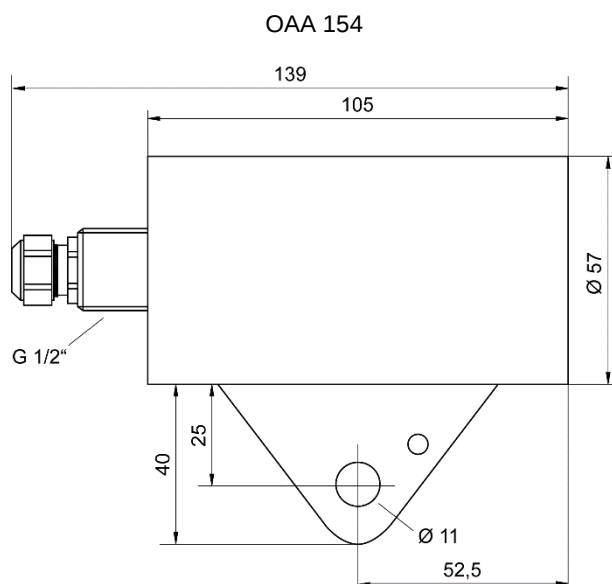


Optical Fiber Cable (not in scope of supply)

	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 for through beam sensor (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 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
Holder for optical fiber cable without optics, up to 290°C ambient temperature	OACF 671	6037H

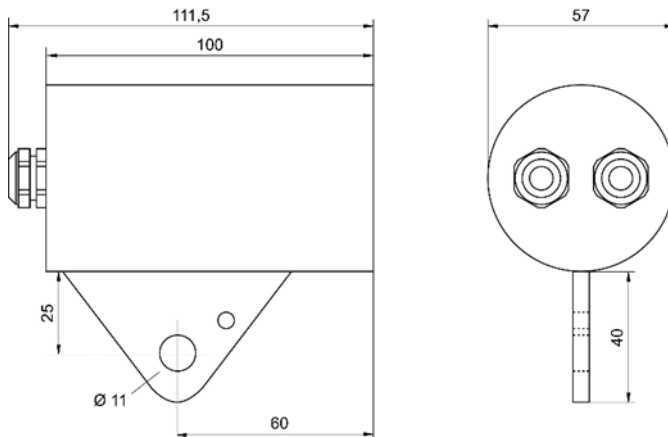
Dimension Optic (mm)


Optic for retroreflective and diffuse sensor (not in scope of supply)

	Type	Art.-No.
Optic retroreflective sensor, up to 290°C ambient temperature	OADF 154	6039D
Optic diffuse sensor, up to 290°C ambient temperature	OATF 154	6039B
Holder for two optical fiber cable without optics, up to 600°C ambient temperature	OACF 672H	6037E

Dimension Optic (mm)

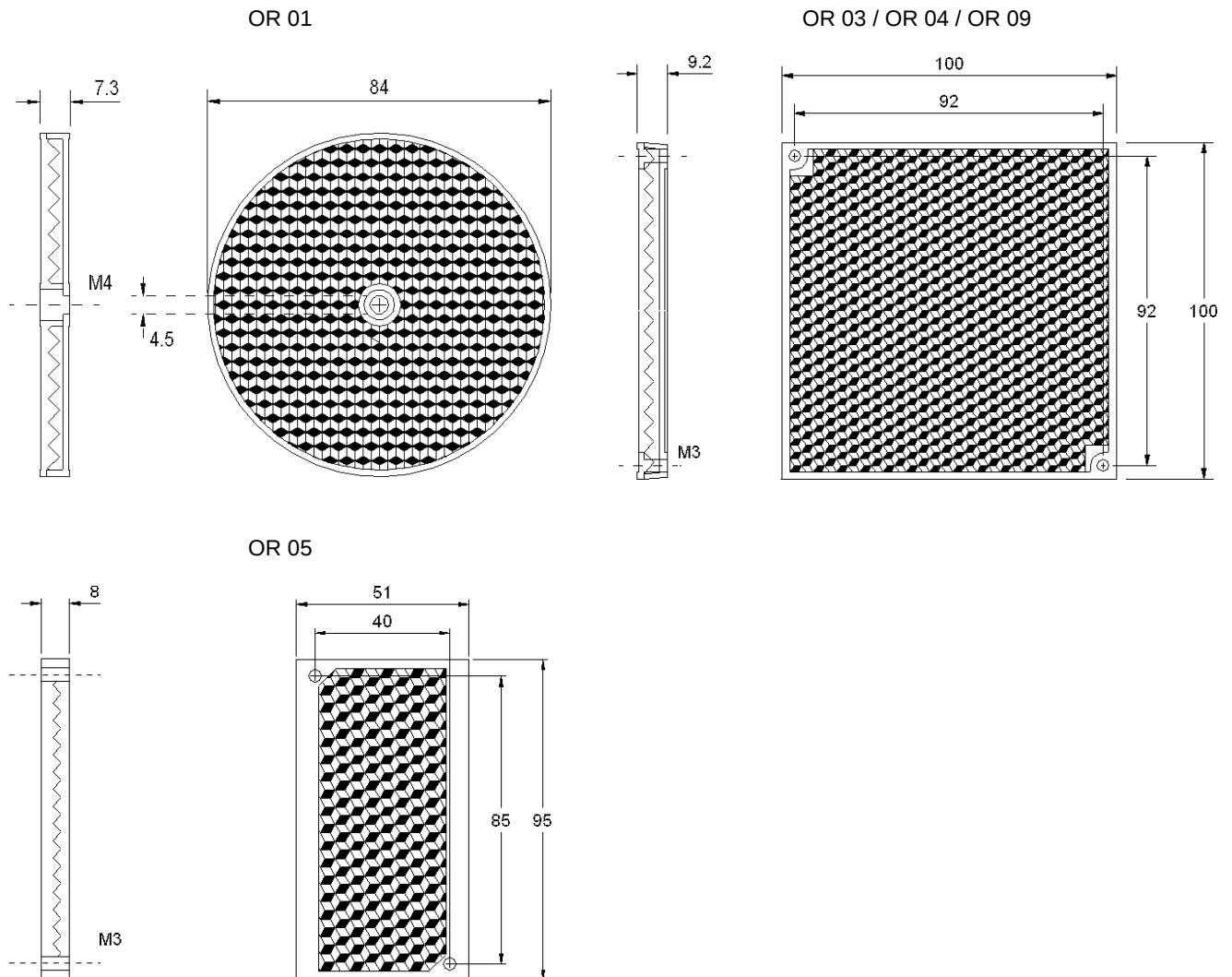
OADF 154



Reflectors for retroreflective sensor (not in scope of supply)

	Type	Art.-No.
Reflector plastic 84 mm round, up to 60°C ambient temperature	OR 01	9818C
Reflector plastic 100 x 100 mm, up to 60°C ambient temperature	OR 03	9818E
Reflector plastic 100 x 100 mm, up to 150°C ambient temperature	OR 04	9818F
Reflector plastic 100 x 100 mm, chemical resistant, up to 150°C ambient temperature	OR 09	9818L
Reflector glass 94 x 51 mm, up to 500°C ambient temperature	OR 05	9818I

Dimension Reflectors (mm)



Accessories (in scope of supply)

	Type	Art.-No.
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Accessories (not in scope of supply)

	Type	Art.-No.
Swivel stand for optic OAA, OADF	HM 2	9816B
Swivel stand for optic OACF	HM 4	9816D
Mounting unit for reflectors	HM 6	9816F
Pilot light attachment for adjustment	DAK 308	6913G
Adapter for Pilot light attachment for optic OAA, OADF	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, OADF	OL 34	9828Q
Tube for air purge attachment OL 34 with OAA	OL 36	9828S
Protection tube 100 mm for air purge attachment OL 34 with OADF	OL 37	9828T
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 light guides 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	9851E
Power supply 90-260 V AC, 24 V DC / 1 A (for SIC 485U)	PPS 2	9853B
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 LX600 Universal D E