



Miniature sensors with MAX power.



Extremely small optos with 3-pole pigtail M8 connection or 2 m PVC cable.

- Size only 20.6 x 12.5 x 7.6 mm, optimum where space is at a premium.
- Reliable detection of even tiny objects.
- Visible light spot for easy sensor alignment.
- Long ranges: through-beam sensor up to 1.2 m.
- Easy and quick alignment using a swivel mount clip.

Visible red light	Small design	M8 connector	Detection of minute objects
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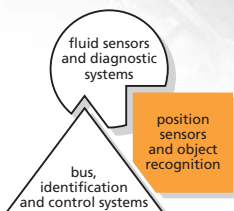
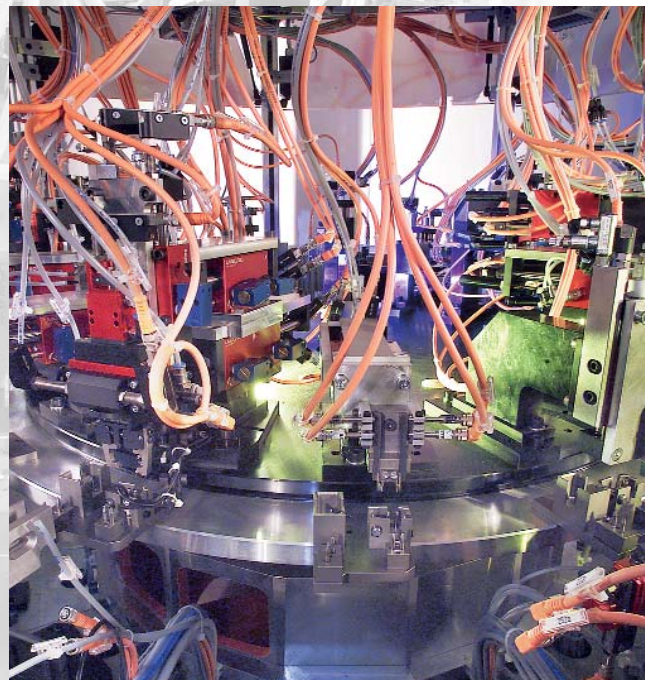
Extremely small sensors

The photoelectric OH type sensors are especially designed for the requirements in assembly and handling technology. With dimensions of just 20.6 x 12.5 x 7.6 mm they can be easily integrated in applications where space is at a premium.

ifm electronic offers the "miniature sensors" as through-beam, retro-reflective and diffuse reflection sensors.

Easy and quick alignment

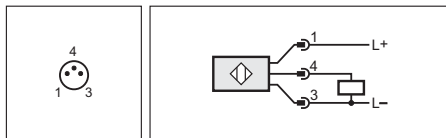
The innovative swivel mount clip and the visible light spot enable easy and quick sensor alignment.






Applications:
Position monitoring where space is restricted in robotics, assembly and handling technology as well as material feed systems.

System	Range [mm]	Switching frequency [Hz]	Light on / dark-on mode	Current consumption [mA]	Order no.
0.2 m connection cable with M8 connector, 3-pole / 3-wire DC PNP					
Diffuse reflection sensor with background suppression	2...50	800	• / –	< 20	OH5016
	1...30	800	• / –	< 20	OH5017
	1...15	800	• / –	< 20	OH5018
Retro-reflective sensor	800	800	– / •	< 20	OH5019
Through-beam - transmitter	1200	–	– / –	< 20	OH5020
Through-beam - receiver	1200	200	– / •	< 10	OH5015
2 m connection cable, 3-pole / 3-wire DC PNP					
Diffuse reflection sensor with background suppression	2...50	800	• / –	< 20	OH5004
	1...30	800	• / –	< 20	OH5006
	1...15	800	• / –	< 20	OH5008
Retro-reflective sensor	800	800	– / •	< 20	OH5010
Through-beam - transmitter	1200	–	– / –	< 20	OH5001
Through-beam - receiver	1200	200	– / •	< 10	OH5002


Wiring diagram



Connectors and splitter boxes

Type	Description	Order no.
	M8 socket, 3-pole, PUR cable 2 m	E11486
	Jumper, M8 connector, M8 socket, PUR cable 2 m	E11268
	Splitter box, M8, 3-pole, 8 locations, cable 5 m	E11214


AS-i module

Type	Description	Order no.
	AS-i input module, 4 locations, M8, 3-pole	AC2480

Common technical data Type OH

Type of light	red light	
Position lens	side	
Operating voltage	[V]	10...30 DC
Short-circuit protection	pulsed	
Reverse polarity / overload protection	• / •	
Operating temperature	[°C]	-20...50
Current rating	[mA]	50
Protection	IP 67, II	
Materials	housing cable lens	ABS PVC PMMA

Accessories

Type	Description	Order no.
	Prismatic reflector 45 x 28 mm, plastic	E20452
	Prismatic reflector 30 x 20 mm, PMMA, ABS	E20994
	Prismatic reflector Ø 17 mm plastic	E20504
	Prismatic reflector Ø 20 mm plastic	E20003
	Swivel mount clip, ABS	E21056
	Angle bracket for free-standing mounting, high-grade stainless steel	E21057
	Angle bracket for wall mounting, high-grade stainless steel	E21058

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