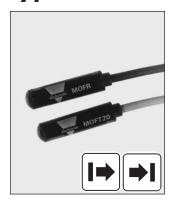
Photoelectrics, ATEX Through-beam for Separate Amplifier Types MOFT..AX, MOFR..AX







- Built-in lens: 2°, 5° or 8°
- Range: 20 m
- Modulated infrared light
- High immunity to ambient light
- For amplifier series \$142. and \$143.
- Degree of protection IP 66/IP 67
- ATEX II 3 DX T50°C
- High penetration power
- 15 m shielded PVC cable
- Ø 10 mm polycarbonate housing or M12 or M14 stainless steel



Product Description

ATEX approved smal through beam photoelectric switch. Range up to 20 m. 3 beam angles. Waterproof, for dirty environment, i.e. water, dust, steam etc. To be used with amplifiers series S142. 15 m shielded cable, PVC. Ø 10 x 42 mm polycarbonate or M12 or M14 stainless steel housing. Straight optical axis.

Ordering Key

MOFT20-M12-2AX

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Emitter ————				
Range —				
Housing diameter ———			l	
Optical angle —				
				.
ATEX ————				
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Type Selection

Housing diameter	Rated operating dist. (S _n)	Optical angle	Ordering no.: Emitter	Ordering no.: Receiver
Ø 10 mm	20 m 20 m	2° 5° 8° 2° 5°	MOFT 20AX MOFT 20-5AX	MOFRAX MOFR-5AX MOFR-8AX
M12	20 m 20 m 20 m 20 m	8° 2° 5° 8° 2° 5°	MOFT 20-8AX MOFT 20-M12-2AX MOFT 20-M12-5AX MOFT 20-M12-8AX	MOFR-M12-2AX MOFR-M12-5AX MOFR-M12-8AX
M14	20 m	8° 8°	MOFT 20-M14-8AX	MOFR-M14-8AX

Specifications Emitter

Rated operational volt. (U _e)	3 V, (square wave) supplied by amplifier
Supply current (I _O)	MOFT 20 ≤ 15 mA MOFT 20-5 ≤ 50 mA MOFT 20-8 ≤ 50 mA
Light source Light type Optical angle	GaAlAs LED, 880 nm Infrared, modulated ± 2°, ± 5°, ± 8°
Indications	On amplifier
Protection	Short-circuit, reverse polarity

Specifications Receiver

Rated operational volt. (U _e)	$8\ \text{VDC}$ supplied by amplifier $R_{\text{source}}\ 470\Omega$
Supply current (I _O)	≤ 11 mA
Sensitivity	Adjustable on amplifier
Optical angle	± 2°,± 5°, ± 8°
Ambient light	10,000 lux (sensitivity ±5%) Note: The actual range will be within ±5% of the set range at an ambient light of 10,000 lux
Operating frequency (f) Response time (t _{OFF} & t _{ON})	See amplifier data See amplifier data
Power ON delay (t _v)	See amplifier data
Indications	On amplifier
Protection	Short-circuit, reverse polarity

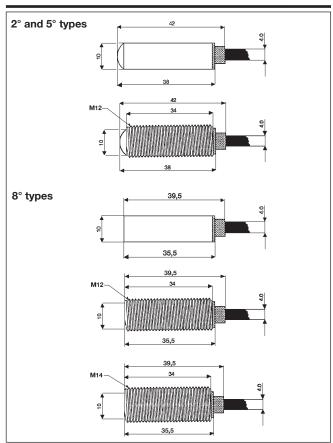


General Specifications

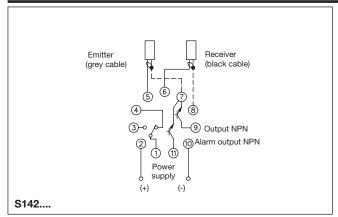
Environment	
Overvoltage category Pollution degree Degree of protection	III (IEC 60664/60664A; 60947-1) 3 (IEC 60664/60664A; 60947-1) IP 66/IP 67 (IEC 60529; 60947-1)
Temperature	,
Operating Storage	-20° to +60°C (-4° to +140°F) -40° to +80°C (-40° to +176°F)
Vibration	10 to 150 Hz, 0.5 mm/7.5 g
Shock	(IEC 60068-2-6) 2 x 1 m & 100 x 0.5 m (IEC 60068-2-6)
Dielectric voltage	500 VAC (rms)
Housing material	Polycarbonate, black
Connection cable	
Emitter Receiver	Grey, 15 m oilproof PVC, Ø 4 mm, 1 x 0.25 mm ² , shielded Black, 15 m oilproof PVC, Ø 4 mm, 1 x 0.25 mm ² , shielded
Weight (cable incl.)	347 g emitter 347 g receiver
CE-marking	Yes
Aprovals*	ATEX zone 22 dust II 3 DX T50°C IP67

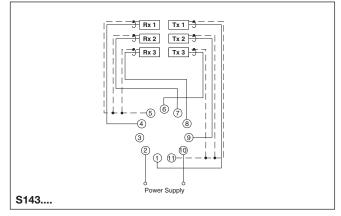
- * The cable must not be exposed to a pulling force.
- Only the sensor must be installed in ATEX area.
 The amplifier system must be installed in a safe area.

Dimensions



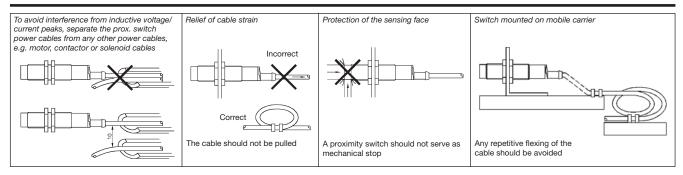
Wiring Diagrams







Installation Hints



Delivery Contents

- MOFT..AX and MOFR..AX
- All M12-types: 2 pcs. M12 nuts
 All M14-types: 2 pcs. M14 nuts
- Packaging: Plastic bag, emitter and receiver packed separately

Accessories

• Mounting bracket MB-M01