

Catalogue No: **42EF-P2MPB-F4**

POL-RETRO 11-30VDC RED 25mm-3m LO/DO PNP DC-MICRO-4

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Polarised Retroreflective Sensors > Compact Rectangular



Representative Photo Only
(actual product may vary based on configuration selections)

42EF RightSight 18mm cylindrical mount Photoelectric Sensor, Polarized Retroreflective, 25mm-3m, Red, 10-30V DC, 2 Complementary LO/DO Outputs, PNP, 4-pin M12 DC Micro QD on 152mm pigtail

- Comprehensive range of photoelectric sensing technologies available which include retroreflective, through-beam, diffuse, background suppression, clear object detection, colour detection and fibre-optics
- Extensive range of photoelectric sensors with laser light source available suitable for high precision applications
- Extensive range of housing styles and mounting options
- Specialised versions with IP69k rating available for high-pressure washdown applications in the food and beverage industry
- Specialised long-range laser sensors available for distance measurement applications
- Specialised versions available with IO-Link technology. This technology enables the data delivery from the sensor directly into a control system in a very efficient manner

SPECIFICATIONS

Product Series	42EF RightSight
Component Type Field Switching & Sensing	Photoelectric Sensor
Sensing Mode	Polarised Retroreflective
Light source type	LED
Colour, light source	Red (660nm)
Beam Angle / Field of View	1.5 ° (degrees)
Spot Size	83.8 mm at 3 m
Material, Lens	PMMA / Acrylic / Perspex / Plexiglas (Polymethyl methacrylate)
Material, Body / Housing	Mindel material
Shape	Rectangular
Height	69 mm
Width	27 mm
Depth	34.5 mm
Orientation	Straight Through / Right Angle
Mounting (Multiple)	Panel Mount Threaded Nose Mounting Bracket (Ordered Separately) Threaded Base
Teach Mode / Sensitivity Adjustment	N / A sensitivity
Sensing Distance, Min	25 mm min
Sensing Distance, Max	3000 mm max
Operating Range(s)	10.8 ... 30V DC
Ue, Rated Operational Voltage, DC, min	10.8 V DC
Ue, Rated Operational Voltage, DC, max	30 V DC
Switching Mode	Light & Dark Operate
Output Type	PNP

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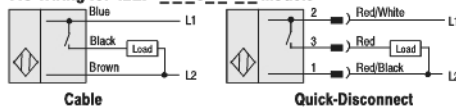
Load Current	0.1 A
Response Time (Off → On)	1 ms
Response Time (On → Off)	1 ms
Indicators	Green LED Orange LED Yellow
Connection / Termination	M12 x 1, DC Micro, 4-pin
Number of Conductors	4 qty
Operating Temperature, Min	-25 °C min
Operating Temperature, Max	70 °C max
Relative humidity, min	5 %RH
Relative Humidity, Max	95 %RH
Humidity type	Non-condensing
IP Rating	IP67 IP69K
Shock Acceleration (Max.)	30 g
Shock Duration (Max.)	1 ms
Shock Rating	IEC 60947-5-2
Vibration Displacement (Peak to Peak Max.)	1 mm
Vibration Frequency, Operational (Max.)	55 Hz
Vibration Rating	IEC 60947-5-2

REFERENCES

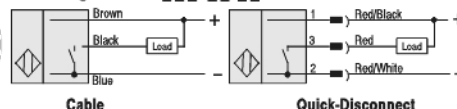
IECEEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	42EF RightSight™ Photoelectric Sensors Installation Guide
User Manual:	-
Manufacturer Datasheet:	42EFP2MPBF4_ManufacturerDatasheet
Manufacturer Catalogue & Product Selection:	42EF RightSight™ Catalog

21.6...264V AC/DC Sensors

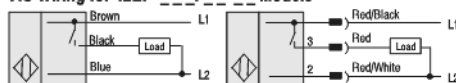
AC Wiring for 42EF-__C__ Models



DC Wiring for 42EF-__C__ Models



AC Wiring for 42EF-__F__ Models



DC Wiring for 42EF-__F__ Models



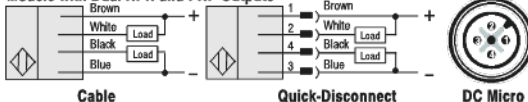
Transmitted Beam Source

21.6...264V AC/DC

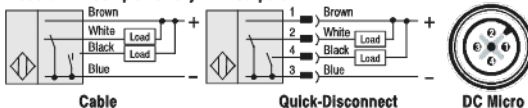


10.8...30V DC Sensors

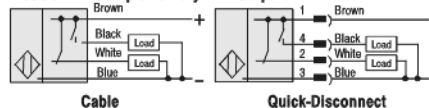
Models with Dual NPN and PNP Outputs



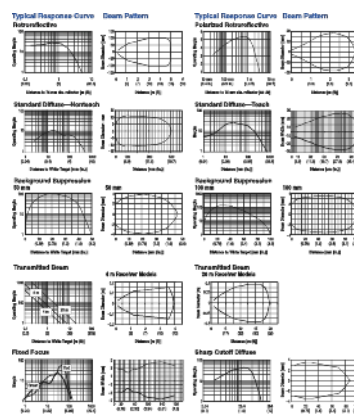
Models with Complementary NPN Outputs



Models with Complementary PNP Outputs



Connection / Wiring Diagram



Technical Diagram