Catalogue No: **42EF-D2MPAK-F4**

DIFF 11-30VDC VISIBLE RED 500mm LO/DO PNP DC-MICRO-4

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Digital Diffuse Sensors > Compact Rectangular

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

PHOTOSWITCH Photoelectric Sensor, RightSight, Standard Diffuse, visible red, DC - 2 Complementary LO/DO Outputs, Source (PNP), manually adjustable, 4-pin DC Micro QD on 152mm (6in) 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 precisions 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	Diffuse
Light source type	LED
Illumination Mode	Continuous
Colour, light source	Red (660nm)
Beam Angle / Field of View	5 ° (degrees)
Spot Size	48.3 mm at 500 mm
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 Threaded Base Mounting Bracket (Ordered Separately)
Thread Size	M18 x 1 size
Teach Mode / Sensitivity Adjustment	Single-Turn Knob / Potentiometer sensitivity
Sensing Distance, Min	3 mm min
Sensing Distance, Max	500 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

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Switching Mode	Light & Dark Operate
Output Type	PNP
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
Wire / Conductor Size	22 AWG (0.326 mm²)
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

IECEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	42EFD1MPAKF4_ManufacturerDatasheet
Manufacturer Catalogue & Product Selection:	-

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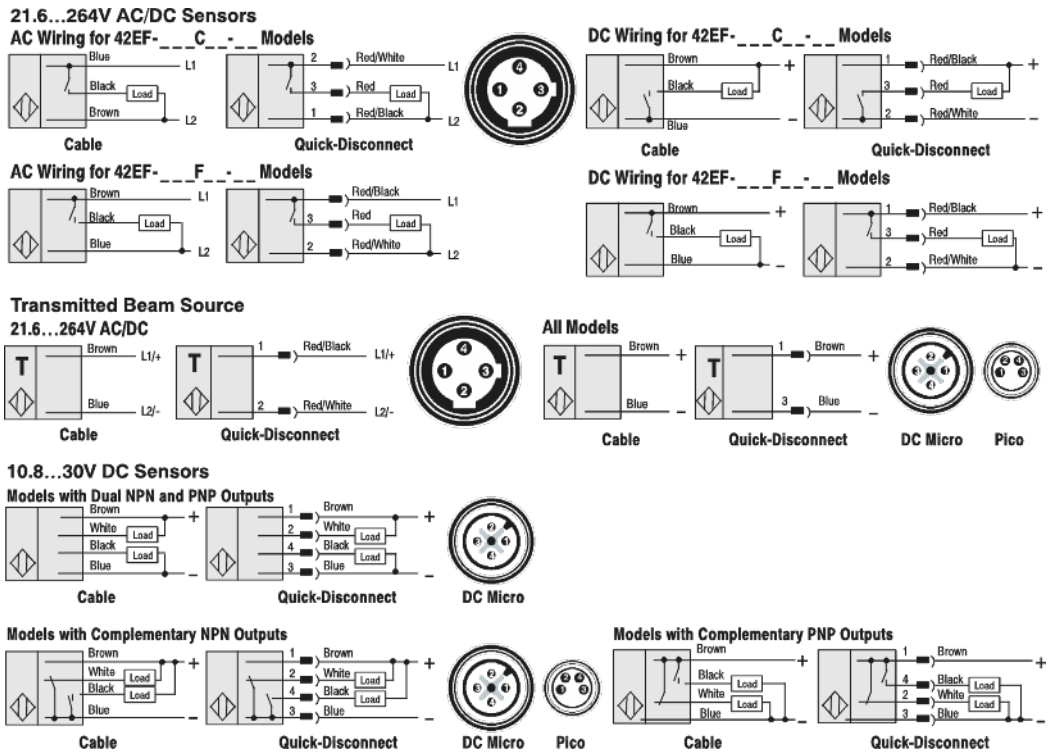
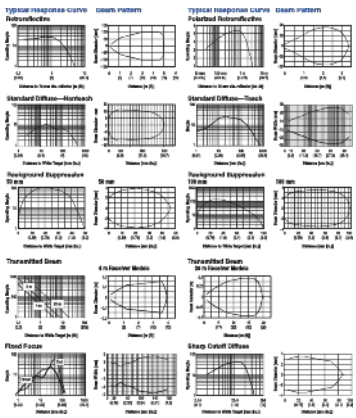


Connection / Wiring Diagram



Technical Diagram