

MPF 3 230 RSL

Photoelectrics Through-beam System, Relay Output **Type MPF.RSL**



Product Description

The MPFRS.. is a family of inexpensive general purpose photoelectric sensors in 3 different types of housings with separate amplifier. They are designed to meet the requirements for industrial doors and gates. The "Snap-ON" photo switch can be mounted in material with a thickness from 0.6 mm and up to 2.25 mm. The sensor set is easy to use and no adjustments are necessary. The amplifier has a

test input designed to disable the emitters and therefore evaluate the sensor function. Multiplexed channels prevent cross-talk between each set of photosensors. The amplifier is available with the following voltage: 12-24 VAC/DC. The output is made as positive security e.g. power lost, short-circuit or broken sensor cable makes the relay go to off state.

- · Industrial doors and gates
- Range: 15 m
- Modulated infrared light
- Amplifier with "Snap-ON" photoelectric switches
- Supply voltage: 12-24 VAC/DC
- Output: SPST relay (low voltage)
- LED indications for light ON
- and supply ON
- 4 module M36 DIN rail housing
- Ø12 mm "Snap-ON", Ø18 or M14 photoelectric housing
- 1, 2 or 3 multiplexed channels
- Positive safety, NF P25-362 standard



Ordering Key

Amplifier

Sensor

Sensor	MPF T 15 M14 4
Туре ———	
Emitter	
Range	
Housing diameter	
Optical angle	

Type Selection, Amplifier

Housing Ordering no. WxHxD Supply: 12-24 VAC/DC 70 x 57 x 86 mm **MPF1-912 RSL MPF2-912 RSL MPF3-912 RSL**

Type Selection, Photoelectric Switch

Housing diameter	Rated operational distance (S _n)	Optical angle	Ordering no. Emitter	Ordering no. Receiver	Ordering no. Fitting
Ø12 mm	15 m	4°		MPFR-4	
M14	15 m	4°	MPFT 15-M14-4	MPFR-M14-4	
D18	15 m	4°	MPFT 15-D18-4	MPFR-D18-4	
Fitting for Ø12					AMPF-MB1



Yes

Specifications, Amplifier

Rated operational volt. AC types (U_B)		Output function	MPF1+2 MPF3	Relay 2 x SPST Relay 2 x SPST + 2 x SPST
Terminals 1 & 3	12-24 VAC/DC ± 15%, 50 to 60 Hz	Indication function	n	
Dielectric voltage	4 kVAC (rms)	Supply ON Beam ON (no object present)		LED, green
Rated impulse withstand volt.	4 kV (1.2/50 μs)			LED, yellow
Rated operational power AC supply DC supply	3 VA 2 W	Environment Overvoltage category Degree of protection		III (IEC 66064) IP 40 (IEC 60529/60947-5-2)
Output Specifications Resistive load 600.000 switching	0.5 A@50 VAC/30 VDC	Pollution degree Temperature Operating Storage		3 (IEC 60664/60664A, 60947-1)
Max. switching power	30 W/62.5 VA			
Rated insulation volt. (Ui)	50 VAC (rms), 50 VDC			-20° to +60°C (-4° to +140°F) -30° to +80°C (-22° to +176°F)
Operating frequency (f) Light/dark ratio 1:1 Contact output	10 Hz	Connection		Screw terminals (max. 2.5 mm ²)
Response time OFF-ON (t _{ON})	< 50 ms	Protection output		Reverse output, transients, short-circuit
ON-OFF (toff)	\leq 40 ms	Test input		Max. 28 V@15 mA AC/DC
Power ON delay (t _v)	≤ 300 ms	Housing material		PC
		Weight		126 g

Specifications, Photoelectric Switches

Rated operation dist. (S _n)	15 m		Connection	
Light source Light type	LED 880 I Infrared m		Cable	PVC, grey, 10 m, Ø 2.9 mm ²
Ambient light	> 20.000	lux	Degree of protection	IP 67 (IEC 60529/60947-5-2)
Housing material House Backpart	Ø12/D18 PC ABS	M14 Stainless steel/PC PTE	Mounting "Snap-ON" Rubber profile Threaded barrel	Ø12 mm or fitting D18 M14
			CE-marking	Yes

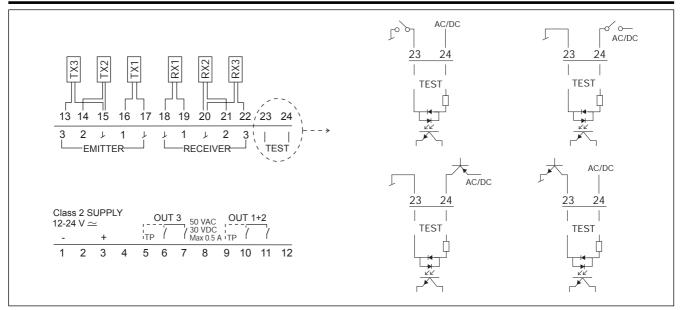
CE-marking

Operation Diagram

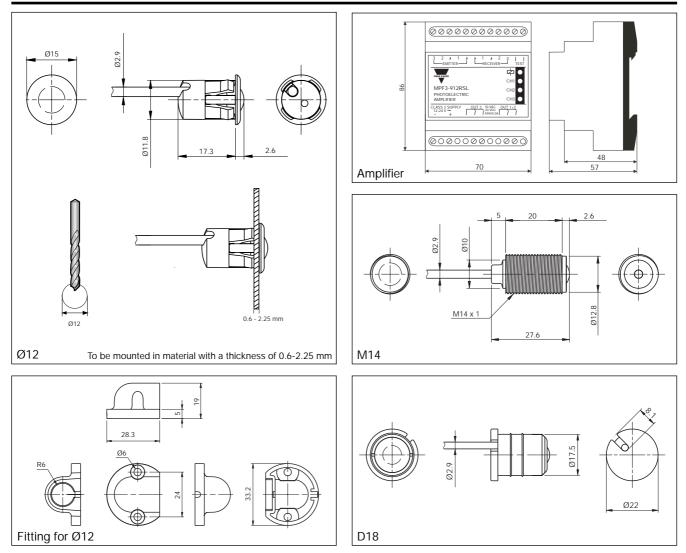
Power supply				
Object present				
Output contact closed	F Tv H	⊢T _{off} -I	F Ton-	FTon-



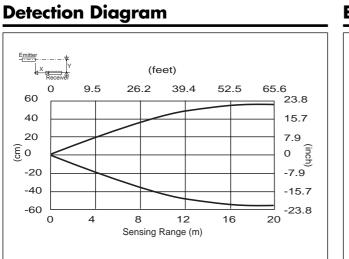
Wiring Diagrams

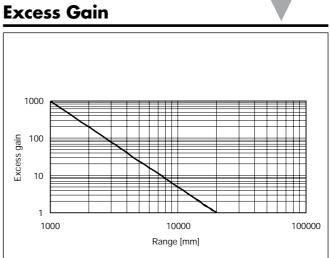


Dimensions

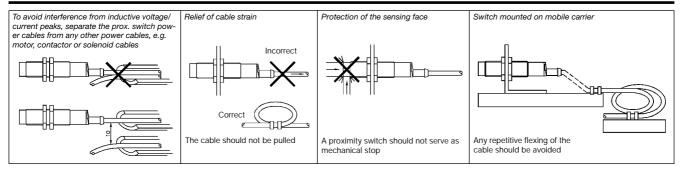








Installation Hints



Delivery Contents

- Amplifier, MPF..
- Installation instruction
- Packaging: cardboard box