



S12-2 Emitter/Receiver Pair Photoelectric Sensor

December 2013



Model Number *	Type	Range	Output Type	Input	Price	
S12-2NAEL-2M	Emitter	20 m (65.6 ft)	N/A	N/A	\$ 21	
S12-2NAEJ-2M				Beam Inhibit	\$ 21	
S12-2ANRL-2M	Receiver		NPN/LO	N/A	\$ 26	
S12-2RNRL-2M					NPN/DO	\$ 26
S12-2APRL-2M					PNP/LO	\$ 26
S12-2RPRL-2M					PNP/DO	\$ 26

*Standard 2 m (6.5 ft) models are listed above. To order 3-pin (150 mm (6 in) pigtail with threaded Pico M8 connector models, replace the suffix “-2M” with “-Q3” (e.g. S12-2NAEL-Q3).

Development Strategy

The S12-2 series was developed as an economical emitter and receiver pair for long range detection of objects such as pallets and forklifts at doorway entrances.

With a range of 20 m and a wide beam pattern in a small, compact housing (12 mm diameter, 30 mm long barrel), the S12-2 is a cost-effective, reliable solution.

Features/Benefits

- Small 12 mm (0.47 inch) diameter tubular opposed mode sensor pair
- Fully threaded barrel allows easy mounting to bracket or panel with included M12 nuts
- Easy-to-see status LED indicators for Power ON, Output Overload, Signal Received, and Marginal Signal
- Wide beam pattern makes sensor alignment easy at long ranges
- Emitter beam inhibit to verify normal sensor operation before motion
- Robust epoxy encapsulated electronics for reliable use in industrial environments

Competition

- Carlo-Garvazzi PA12 series (metal)
- Automation Direct DMR/E series (metal)

Applications

- Monitoring Around Doors and Gates
- Embedded sensing inside machines
- Material Handling

Links and Sales Tools

Literature

- Datasheet [176293](#)