

Red light sensor in rugged metal housings

BOS 21M PHOTOELECTRIC SENSOR FAMILY WITH IO-LINK

The BOS 21M photoelectric sensor family with IO-Link offers you a variety of application possibilities, including those in harsh industrial environments. That is because their rugged metal housing delivers both IP67 and IP69K protection and Ecolab approval.

The sensors are ideal for detecting objects of any kind. For example, they detect cartons on a conveyor belt as easily as they check parts for presence.

Setup and maintenance is conveniently provided by the potentiometer, indicator options and a rotating connector. The highly visible red light makes the sensor easy to align. And the IO-Link interface gives you the traditional IO-Link benefits: simple installation and easy diagnostics.

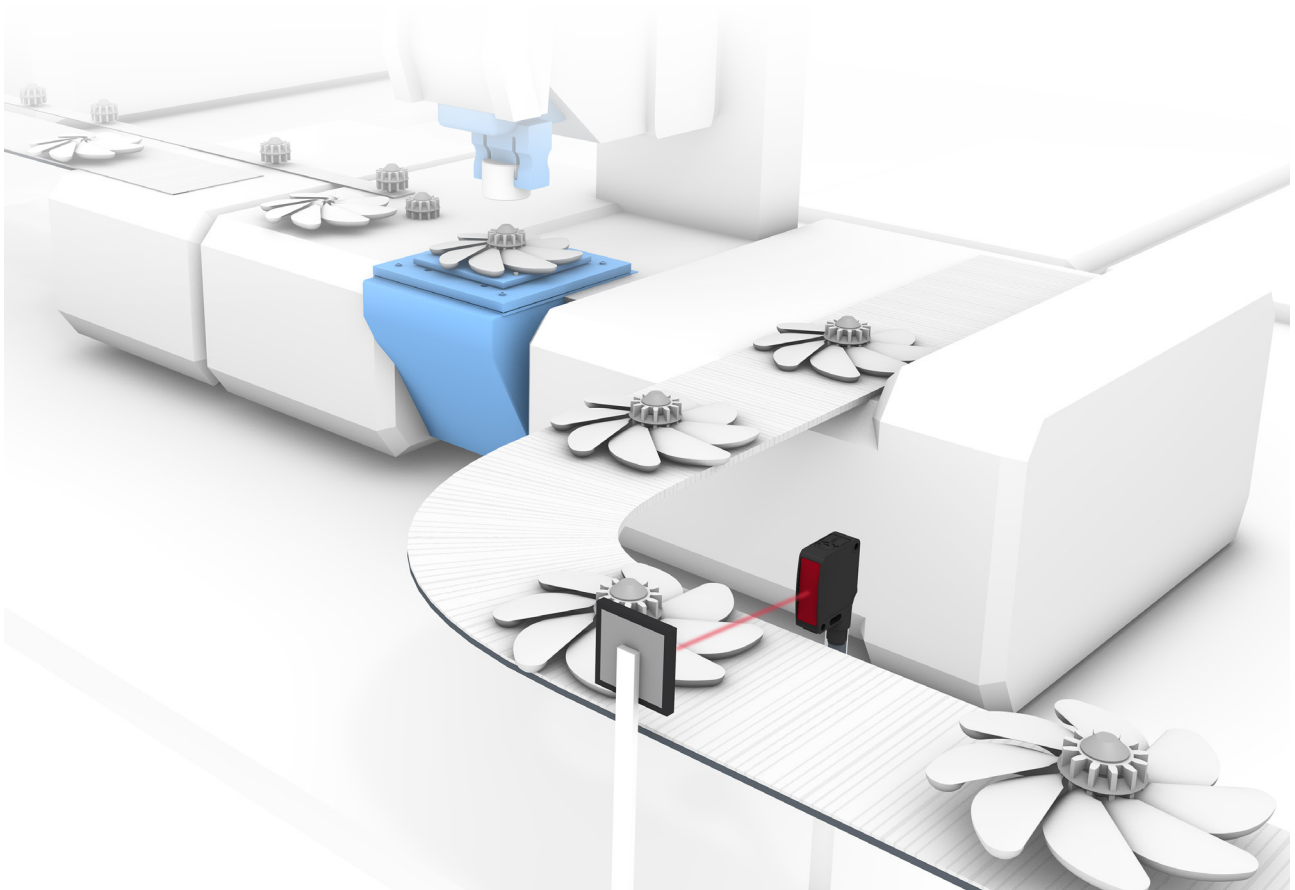
The universal form factor and various function principles mean you can use the sensor very flexibly.

Features

- Highly visible red light for easy alignment
- IO-Link V1.1 with 38.4 kBit/s (COM2)
- Simple adjustment via potentiometer
- Function indicator and contamination indicator via LED
- Convenient rotating connector
- Ecolab approved



Ecolab  IO-Link



PHOTOELECTRIC SENSORS



	BOS027N	BOS027M	BOS027P	BOS027R
Series	21M	21M	21M	21M
Principle of optical operation	Diffuse sensor, energetic	Retroreflective sensor	Through-beam sensor (emitter)	Through-beam sensor (receiver)
Dimension	15.4 × 51.1 × 42.7 mm	15.4 × 51.1 × 42.7 mm	15.4 × 51.1 × 42.7 mm	15.4 × 51.1 × 42.7 mm
Interface	IO-Link 1.1, PNP normally open (NO), PNP normally closed (NC)	IO-Link 1.1, PNP normally open (NO), PNP normally closed (NC)	IO-Link 1.1	IO-Link 1.1, PNP normally open (NO), PNP normally closed (NC)
Input function			Test (Emitter off)	
Additional features	Warning message in event of contamination (via IO-Link)	Warning message in event of contamination (via IO-Link)		Warning message in event of contamination (via IO-Link)
Beam characteristic	Divergent	Divergent	Divergent	
Light type	LED, red light	LED, red light	LED, red light	LED, red light
Range	10...1000 mm	0...8 m	0...20 m	0...20 m
Connection	Connector, M12 male, 4-pin	Connector, M12 male, 4-pin	Connector, M12 male, 4-pin	Connector, M12 male, 4-pin
Housing material	Zinc, die casting	Zinc, die casting	Zinc, die casting	Zinc, die casting
Material sensing surface	PMMA	PMMA	PMMA	PMMA
Operating voltage U_B	18...30 V DC	18...30 V DC	18...30 V DC	18...30 V DC
Approval/conformity	CE, cULus, EAC, Ecolab	CE, cULus, EAC, Ecolab	CE, cULus, EAC, Ecolab	CE, cULus, EAC, Ecolab

ACCESSORIES



	BAM00T9	BAM00TH	BAM00UK
Description	Mounting bracket for photoelectric sensors BOS 21M, steel galvanized	Sensor mount for photoelectric sensors BOS 21M, aluminum anodized	Reflector for photoelectric retroreflective sensors, PMMA

CONNECTIVITY



	BCC0AK4
Connection	M12 female, straight, 5-pin, A-coded
Cable	PUR welding spark resistant, black, 2 m, drag chain compatible