

Photoelectric flatpack sensors

MINIATURE SENSORS FOR THE HARSHTEST ENVIRONMENTS

Balluff's newest addition to the photoelectric family, the R01E, complements the proven inductive R01 family of sensors. These sensors offer diffuse versions with ranges up to 100 mm, polarized retroreflective mode with ranges up to one meter, and through-beam sensor with ranges up to 2.2 meters. With a precise, uniform visible red light beam, alignment is easy and objects are reliably detected.

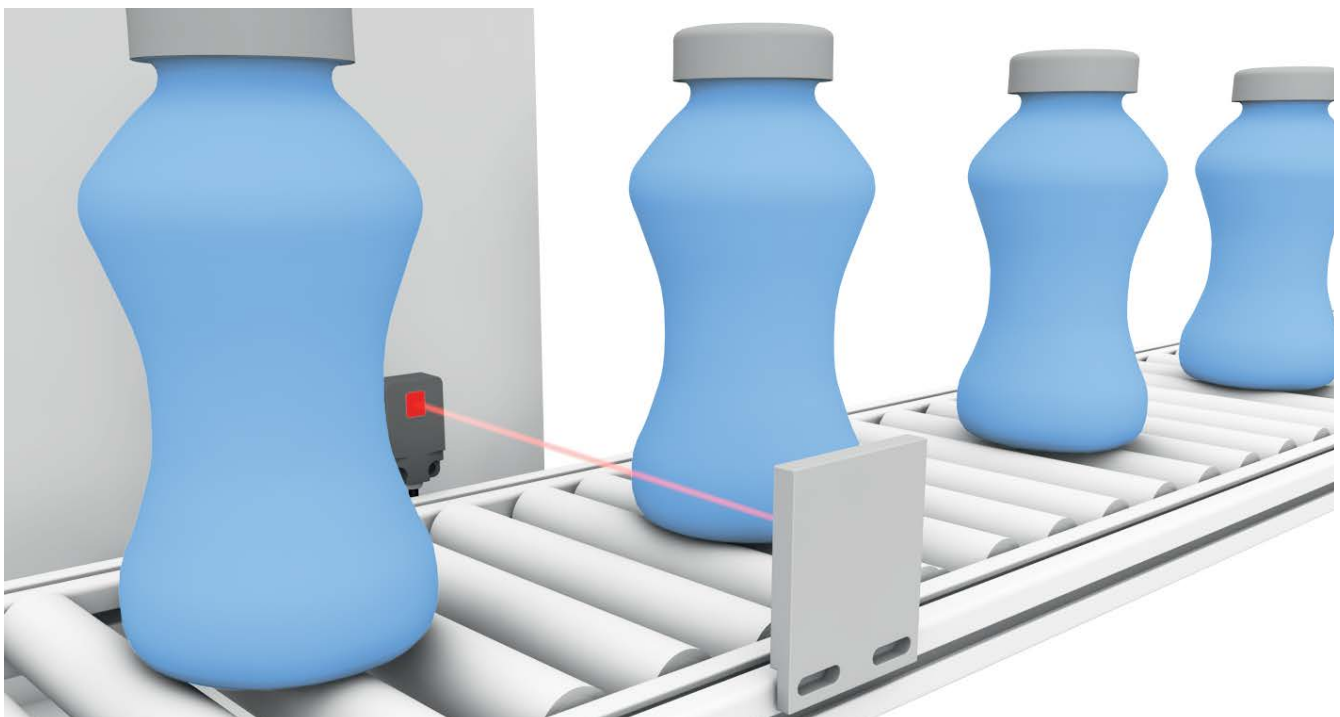
Not only does the small size provide flexibility in installation, but the stainless steel housing is built to survive the toughest applications in the harshest environments. Connections are made by cable or M8 three-pin quick disconnect.

Built to Balluff's highest standards, all R01E sensors offer reverse polarity and short circuit protection. Balluff's attention to quality, superior sensor design, and performance standards means better reliability, less down time, and higher productivity.

Applications: packaging machinery, assembly machinery, material handling, small part detection, error proofing, general purpose automation

Features

- Red light
- Miniature stainless steel housing
- Polyamide (PA) optical surface
- PNP, NPN, NO, NC outputs
- IP69K
- Diffuse, retroreflective and through-beam sensing modes



R01E
SENSORS



Diffuse	BOS021J	BOS021K	BOS021Y	BOS021Z	BOS0220	BOS0221
Interface	PNP Normally open (NO)	PNP Normally open (NO)	PNP Normally closed (NC)	PNP Normally closed (NC)	NPN Normally open (NO)	NPN Normally open (NO)
Range	1...100 mm	1...100 mm	1...100 mm	1...100 mm	1...100 mm	1...100 mm
Connection	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR
Approval/Conformity	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE
Retroreflective	BOS021L	BOS021M	BOS0222	BOS0223	BOS0224	BOS0225
Interface	PNP Normally open (NO)	PNP Normally open (NO)	PNP Normally closed (NC)	PNP Normally closed (NC)	NPN Normally open (NO)	NPN Normally open (NO)
Range	1 m	1 m	1 m	1 m	1 m	1 m
Connection	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR
Approval/Conformity	CE, cULus, Ecolab, EAC	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE
Through-beam receiver	BOS021N	BOS021P	BOS0226	BOS0227	BOS0228	BOS022F
Interface	PNP Normally open (NO)	PNP Normally open (NO)	PNP Normally closed (NC)	PNP Normally closed (NC)	NPN Normally open (NO)	NPN Normally open (NO)
Range	0...2.2 m	0...2.2 m	0...2.2 m	0...2.2 m	0...2.2 m	0...2.2 m
Connection	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR
Approval/Conformity	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE	Ecolab, cULus, CE
Through-beam emitter	BOS021R	BOS021T				
Range	0...2.2 m	0...2.2 m				
Connection	M8 male, 3-pole, 0.20 m, PUR	Cable, 2.00 m, PUR				
Approval/Conformity	Ecolab, cULus, CE	Ecolab, cULus, CE				

CONNECTORS



Washdown	BCC0AH1	BCC0AH5				
General purpose			BCC050L	BCC0555	BCC051F	BCC052W
Connection 1	M8 female, straight, 3-pole	M8 female, angled, 3-pole	M8 female, straight, 3-pole	M8 female, angled, 3-pole	M8 female, straight, 3-pole	M8 female, straight, 3-pole
Connection 2					M8 male, straight, 3-pole	M12 male, straight, 3-pole
Cable	PVC yellow, 2.00 m	PVC yellow, 2.00 m	TPE yellow, 2.00 m	TPE yellow, 2.00 m	TPE yellow, 2.00 m	TPE yellow, 2.00 m