

Photoelectric Flatpack Sensors Miniature sensors for the harshest 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 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 means better reliability, less down time, and higher productivity.

Features

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

Applications

- Packaging machinery
- Assembly machinery
- Material handling
- Small part detection
- Error proofing
- General purpose automation



Order Code	Material Description	Sensing Mode	Sensing Range (mm)	Output	Switching Type	Connection
BOS021J	BOS R01E-PS-KD20-00,2-S49	Diffuse	1...100	PNP	Light - NO	M8 Pigtail, 3-pin
BOS021K	BOS R01E-PS-KD20-02	Diffuse	1...100	PNP	Light - NO	Cable , 2m
BOS021Y	BOS R01E-PO-KD20-00,2-S49	Diffuse	1...100	PNP	Dark - NC	M8 Pigtail, 3-pin
BOS021Z	BOS R01E-PO-KD20-02	Diffuse	1...100	PNP	Dark - NC	Cable , 2m
BOS0220	BOS R01E-NS-KD20-00,2-S49	Diffuse	1...100	NPN	Light - NO	M8 Pigtail, 3-pin
BOS0221	BOS R01E-NS-KD20-02	Diffuse	1...100	NPN	Light - NO	Cable , 2m
BOS021L	BOS R01E-PS-KR20-00,2-S49	Retroreflective	25...1000	PNP	Dark - NO	M8 Pigtail, 3-pin
BOS021M	BOS R01E-PS-KR20-02	Retroreflective	25...1000	PNP	Dark - NO	Cable , 2m
BOS0222	BOS R01E-PO-KR20-00,2-S49	Retroreflective	25...1000	PNP	Light - NC	M8 Pigtail, 3-pin
BOS0223	BOS R01E-PO-KR20-02	Retroreflective	25...1000	PNP	Light - NC	Cable , 2m
BOS0224	BOS R01E-NS-KR20-00,2-S49	Retroreflective	25...1000	NPN	Dark - NO	M8 Pigtail, 3-pin
BOS0225	BOS R01E-NS-KR20-02	Retroreflective	25...1000	NPN	Dark - NO	Cable , 2m
BOS021N	BOS R01E-PS-KE20-00,2-S49	Through-Beam	2,200	PNP	Dark - NO	M8 Pigtail, 3-pin
BOS021P	BOS R01E-PS-KE20-02	Through-Beam	2,200	PNP	Dark - NO	Cable , 2m
BOS0226	BOS R01E-PO-KE20-00,2-S49	Through-Beam	2,200	PNP	Light - NC	M8 Pigtail, 3-pin
BOS0227	BOS R01E-PO-KE20-02	Through-Beam	2,200	PNP	Light - NC	Cable , 2m
BOS0228	BOS R01E-NS-KE20-00,2-S49	Through-Beam	2,200	NPN	Dark - NO	M8 Pigtail, 3-pin
BOS022F	BOS R01E-NS-KE20-02	Through-Beam	2,200	NPN	Dark - NO	Cable , 2m
BOS021R	BOS R01E-X-KS20-00,2-S49	Through-Beam Emitter	2,200			M8 Pigtail, 3-pin
BOS021T	BOS R01E-X-KS20-02	Through-Beam Emitter	2,200			Cable , 2m