

Photoelectric Sensors Miniature sensors with extensive capabilities

Even though they are compact in size, Balluff's second generation of BOS 6K line of miniature sensors provide extensive capabilities in solving the toughest applications. The second generation offers longer range background suppression, more laser retroreflective and long range laser through beam sensor versions. Four sensing modes are available including background suppression, diffuse, retroreflective and through-beam.

Not only does the small size provide flexibility in installation, but also set up is easy with the simple pushbutton teach. Connections are made by cable, M8 three-pin or M8 four-pin quick disconnect. All versions of the BOS 6K second generation sensors are now IP67 / IP69 / Ecolab approved

Balluff's attention to quality, superior sensor design and performance means better reliability, less down time and higher productivity.



Features / Benefits

- Class 1 laser or red light
- Miniature housing
- Dovetail mount for secure mounting and alignment
- Long ranges - up to 18 m with through-beam
- Four sensing modes
- Pushbutton teach
- IP67 / IP69 / Ecolab approved



Diffuse sensor

Ordering code	Part number	Description
BOS01LK	BOS 6K-PU-RD10-S49	- 0...800 mm, red light, PNP, NO/NC, M8 3-pin
BOS01LL	BOS 6K-PU-RD10-S75	- 0...800 mm, red light, PNP, NO/NC, M8 4-pin
BOS01LM	BOS 6K-NU-RD10-S75	- 0...800 mm, red light, NPN, NO/NC, M8 4-pin
BOS01LN	BOS 6K-PU-RD10-02	- 0...800 mm, red light, PNP, NO/NC, 2m cable
BOS01LP	BOS 6K-NU-RD10-02	- 0...800 mm, red light, NPN, NO/NC, 2m cable

Contrast sensor

Ordering code	Part number	Description
BKT000Z	BKT 6K-002-P-S49	- 1...250 mm, class 1 laser, PNP, M8 3-pin NEW!
BKT0010	BKT 6K-002-P-S75	- 1...250 mm, class 1 laser, PNP, M8 4-pin
BKT0011	BKT 6K-002-N-S75	- 1...250 mm, class 1 laser, NPN, M8 4-pin
BKT0012	BKT 6K-002-P-02	- 1...250 mm, class 1 laser, PNP, 2m cable
BKT0013	BKT 6K-002-N-02	- 1...250 mm, class 1 laser, NPN, 2m cable

Through-beam emitter

Ordering code	Part number	Description
BOS01MF	BOS 6K-XR-RS10-S49	- 0...13 m, red light, M8 3-pin
BOS01LR	BOS 6K-XR-RS10-S75	- 0...13 m, red light, M8 4-pin
BOS01LT	BOS 6K-XR-RS10-02	- 0...13 m, red light, 2m cable
BOS01M1	BOS 6K-XR-LS10-S49	- 0...18 m, red light, M8 3-pin NEW!
BOS01M2	BOS 6K-XR-LS10-S75	- 0...18 m, red light, M8 4-pin NEW!
BOS01M3	BOS 6K-XR-LS10-02	- 0...18 m, red light, 2m cable NEW!

Through-beam Receiver

Ordering code	Part number	Description	
BOS01M8	BOS 6K-PU-RE10-S49	- 0...13 m, red light, PNP, NO/NC, M8 3-pin	
BOS01M9	BOS 6K-PU-RE10-S75	- 0...13 m, red light, PNP, NO/NC, M8 4-pin	
BOS01MA	BOS 6K-NU-RE10-S75	- 0...13 m, red light, NPN, NO/NC, M8 4-pin	
BOS01MC	BOS 6K-PU-RE10-02	- 0...13 m, red light, PNP, NO/NC, 2m cable	
BOS01ME	BOS 6K-NU-RE10-02	- 0...13 m, red light, NPN, NO/NC, 2m cable	
BOS01LU	BOS 6K-PU-LE10-S49	- 0...18 m, class 1 laser, PNP, NO/NC, M8 3-pin	NEW!
BOS01LW	BOS 6K-PU-LE10-S75	- 0...18 m, class 1 laser, PNP, NO/NC, M8 4-pin	NEW!
BOS01LY	BOS 6K-NU-LE10-S75	- 0...18 m, class 1 laser, NPN, NO/NC, M8 4-pin	NEW!
BOS01LZ	BOS 6K-PU-LE10-02	- 0...18 m, class 1 laser, PNP, NO/NC, 2m cable	NEW!
BOS01M0	BOS 6K-NU-LE10-02	- 0...18 m, class 1 laser, NPN, NO/NC, 2m cable	NEW!

Diffuse sensor with background suppression

Ordering code	Part number	Description	
BOS01KW	BOS 6K-PU-RH10-S49	- 1...200 mm, red light, PNP, NO/NC, M8 3-pin	
BOS01KY	BOS 6K-PU-RH10-S75	- 1...200 mm, red light, PNP, NO/NC, M8 4-pin	
BOS01KZ	BOS 6K-NU-RH10-S75	- 1...200 mm, red light, NPN, NO/NC, M8 4-pin	
BOS01L0	BOS 6K-PU-RH10-02	- 1...200 mm, red light, PNP, NO/NC, 2m cable	
BOS01L1	BOS 6K-NU-RH10-02	- 1...200 mm, red light, NPN, NO/NC, 2m cable	
BOS01L2	BOS 6K-PU-RH11-S49	- 3...400 mm, red light, PNP, NO/NC, M8 3-pin	NEW!
BOS01L3	BOS 6K-PU-RH11-S75	- 3...400 mm, red light, PNP, NO/NC, M8 4-pin	NEW!
BOS01L4	BOS 6K-NU-RH11-S75	- 3...400 mm, red light, NPN, NO/NC, M8 4-pin	NEW!
BOS01L5	BOS 6K-PU-RH11-02	- 3...400 mm, red light, PNP, NO/NC, 2m cable	NEW!
BOS01L6	BOS 6K-NU-RH11-02	- 3...400 mm, red light, NPN, NO/NC, 2m cable	NEW!
BOS01LE	BOS 6K-PU-LH10-S75	- 4...120 mm, laser class 1, PNP, NO/NC, M8 4-pin	
BOS01LF	BOS 6K-NU-LH10-S75	- 4...120 mm, laser class 1, NPN, NO/NC, M8 4-pin	
BOS01LH	BOS 6K-PU-LH10-02	- 4...120 mm, laser class 1, PNP, NO/NC, 2m cable	
BOS01LJ	BOS 6K-NU-LH10-02	- 4...120 mm, laser class 1, NPN, NO/NC, 2m cable	

Retroreflective sensor

Ordering code	Part number	Description	
BOS01MH	BOS 6K-PU-PR10-S49	- 0.1...6 m, red light, PNP, NO/NC, M8 3-pin	
BOS01MJ	BOS 6K-PU-PR10-S75	- 0.1...6 m, red light, PNP, NO/NC, M8 4-pin	
BOS01MK	BOS 6K-NU-PR10-S75	- 0.1...6 m, red light, NPN, NO/NC, 4-pin	
BOS01ML	BOS 6K-PU-PR10-02	- 0.1...6 m, red light, PNP, NO/NC, M8, 2m cable	
BOS01MM	BOS 6K-NU-PR10-02	- 0.1...6 m, red light, NPN, NO/NC, 2m cable	
BOS01L7	BOS 6K-PU-PT10-S49	- 0.1...2 m, red light, PNP, NO/NC, M8 3-pin, glass sensing	NEW!
BOS01L8	BOS 6K-PU-PT10-S75	- 0.1...2 m, red light, PNP, NO/NC, M8 4-pin, glass sensing	
BOS01L9	BOS 6K-NU-PT10-S75	- 0.1...2 m, red light, NPN, NO/NC, M8 4-pin, glass sensing	
BOS01LA	BOS 6K-PU-PT10-02	- 0.1...2 m, red light, PNP, NO/NC, 2m cable, glass sensing	
BOS01LC	BOS 6K-NU-PT10-02	- 0.1...2 m, red light, NPN, NO/NC, 2m cable, glass sensing	
BOS01MN	BOS 6K-PU-LK10-S49	- 0...4 m, class 1 laser, PNP, NO/NC, M8 3-pin	NEW!
BOS01M4	BOS 6K-PU-LK10-S75	- 0...4 m, class 1 laser, PNP, NO/NC, M8 4-pin	
BOS01M5	BOS 6K-NU-LK10-S75	- 0...4 m, class 1 laser, NPN, NO/NC, M8 4-pin	NEW!
BOS01M6	BOS 6K-PU-LK10-02	- 0...4 m, class 1 laser, PNP, NO/NC, 2m cable	NEW!
BOS01M7	BOS 6K-NU-LK10-02	- 0...4 m, class 1 laser, NPN, NO/NC, 2m cable	NEW!