

BALLUFF

sensors worldwide

The Global Line

General-purpose sensors for industrial automation



GlobalProx[®]

Global.CProx[™]

GlobalEye[™]



Balluff North America



Florence, Kentucky USA

Balluff's Florence, Kentucky United States headquarters is located just south of Cincinnati, Ohio. Our customers are in industries such as automotive, machine tool, robotics, injection molding, packaging, material handling, and more.

In addition to sales, marketing, and logistic functions, this facility manufactures Micropulse® magnetostrictive linear position sensors and warehouses over 60,000 products.

The Balluff Global Network

Balluff spans the globe with representation in 49 countries.



Argentina
Australia
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Thailand
Taiwan
Turkey
USA
Venezuela

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Cables 29

Accessories 30

Part Number Cross Reference 32

Service

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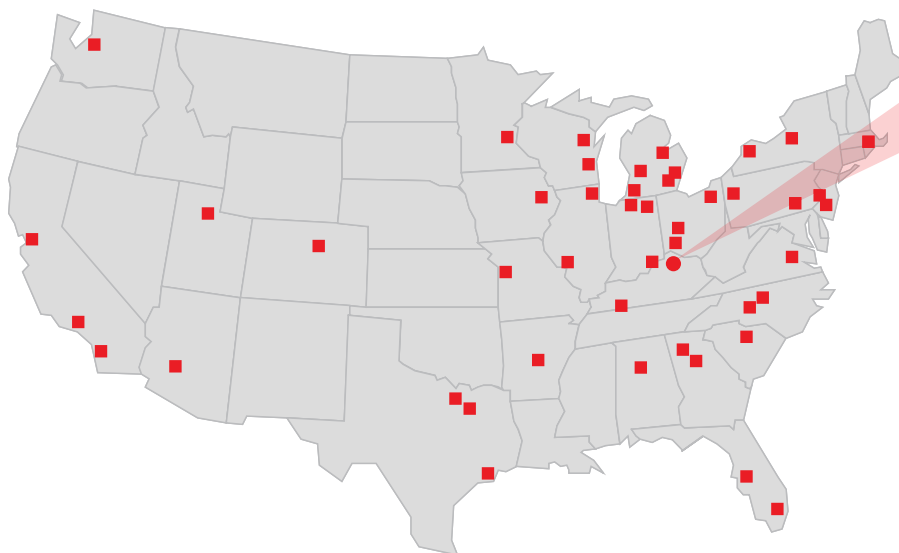
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Local Premier Distributor Support



BALLUFF – US Headquarters
Florence, KY

Our premier distributor network can quickly assist with applications and order fulfillment.

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GlobalProx® – Performance and Value in Inductive Proximity Sensors

Balluff's economical GlobalProx® line of inductive proximity sensors offers a broad range of top-quality, performance proven products. The GlobalProx family includes a wide array of tubular M8, M12, M18, and M30 sensors available in 3-wire DC and 2-wire DC models – with over 350 models to choose from! Built to the same high standards as all Balluff inductive proximity sensors, GlobalProx sensors are 100% tested to guarantee conformance to critical published specifications. This attention to quality and performance ensures all models provide years of worry-free, reliable operation which increases production run time and decreases maintenance costs.

The GlobalProx line also offers great value. Advances in integrated circuit technology and high volume production techniques enable Balluff to offer superior quality products at value pricing. GlobalProx sensors also carry international approvals to meet the demands of a global customer base. All sensors are CE marked, cULus listed, and are backed by Balluff's standard lifetime warranty.



www.balluff.com/globalprox

GlobalProx®



Product Family Improvements

- **Additional 3-wire DC PNP and NPN models provide more choice for control variations**
- **More metal porthole LED connector versions with robust connectors for rugged applications**
- **Extended range “shorty” 2-Wire DC normally-closed outputs for small spaces**
- **PTFE coated 2-Wire DC sensors for weld applications**
- **Balluff sensors can now be ordered using the quick seven digit order code shown below the sensors**

Same GlobalProx Features

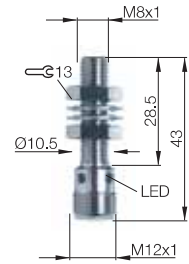
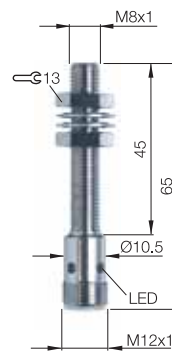
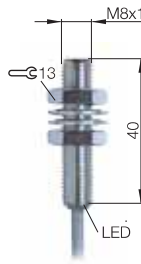
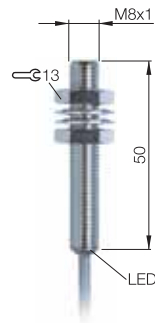
- **Convenience – most models stocked for same day delivery**
- **Variety – 2 wire DC, 3 wire DC, flush/non-flush models, connectorized or cable out, M8 to M30 sizes**
- **Reliability – protected from short circuits, voltage surges, polarity reversal and current overload**
- **Quality – 100% tested, lifetime warranty**

Standard Specifications

Rated supply voltage	24 V DC
Supply voltage range	10...30 V DC, 12...30 V DC, or 10...36 V DC
Max. load current	100 mA, 130 mA, or 200 mA
Short circuit protection	Yes
Current overload protection	Yes
Voltage surge protection	Yes
Polarity reversal protection	Yes
Degree of protection	IP67 or IP68
Temperature range	-25° C...+70° C
Approvals	CE and cULus

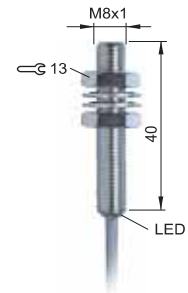
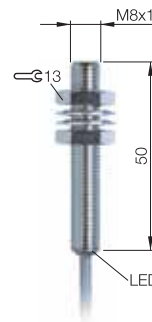
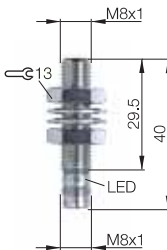
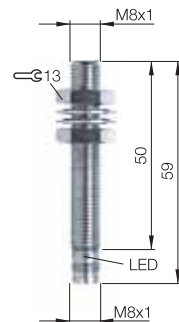
Cable lengths may vary per model. Refer to charts on page 32-33 for cable lengths included in brochure. See www.balluff.com/globalprox for all available models.

GlobalProx® DC 3-wire – M8



Housing size	M8x1		M8x1	M8x1	M8x1
Mounting	Flush		Flush	Flush	Flush
Rated operating distance Sn	1.5 mm		1.5 mm	1.5 mm	1.5 mm
Assured operating distance Sa	0...1.2 mm		0...1.2 mm	0...1.2 mm	0...1.2 mm
Cable length and material	3m PVC	3m PUR	3m PUR		
PNP Normally open	BES0038	BES0035	BES00CU	BES0027	BES00CH
PNP Normally closed	BES0031	BES002Y	BES00CR	BES0026	BES00CA
NPN Normally open	BES002H	BES002A	BES00CN	BES0024	BES00C6
NPN Normally closed	BES03PJ		BES00CL	BES0023	BES00C2

See page 32 for part number reference.



Housing size	M8x1		M8x1	M8x1	M8x1
Mounting	Flush		Flush	Flush	Flush
Rated operating distance Sn	1.5 mm		1.5 mm	2 mm	2 mm
Assured operating distance Sa	0...1.2 mm		0...1.2 mm	0...1.6 mm	0...1.6 mm
Cable length and material			3m PVC	3m PUR	2m PUR
PNP Normally open	BES003C	BES00CJ	BES003L	BES003H	BES00CW
PNP Normally closed	BES03P6	BES00CC	BES03TH		BES00CT
NPN Normally open	BES002K	BES00C7	BES002R	BES002M	BES00CP
NPN Normally closed	BES03PK	BES00C3	BES03TF		BES00CM

See page 32 for part number reference.

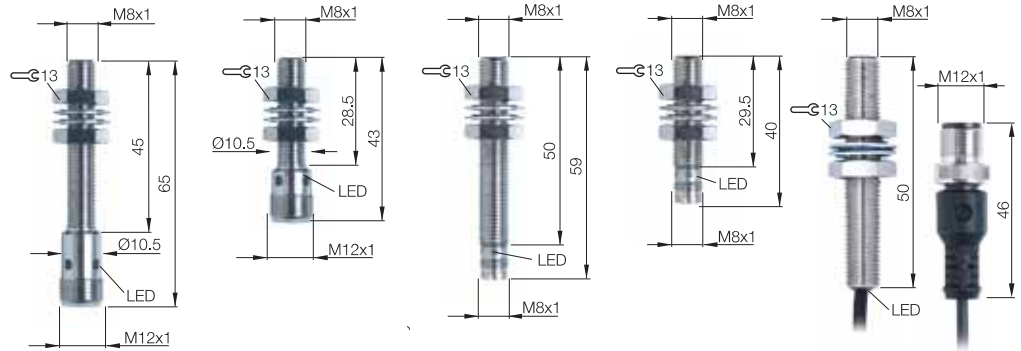
Sensing Distance

Sensing Distance

Refer to Balluff website for latest technical information.

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DC 3-wire – M8 and M12



Sensing Distance

Sensing Distance

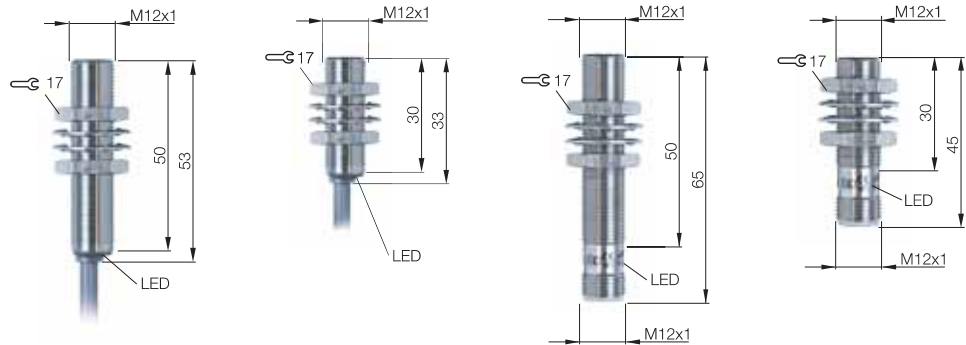
Sensing Distance

Sensing Distance

Sensing Distance

Housing size	M8x1	M8x1	M8x1	M8x1	M8x1	
Mounting	Flush	Flush	Flush	Flush	Flush	
Rated operating distance Sn	2 mm	2 mm	2 mm	2 mm	2 mm	
Assured operating distance Sa	0...1.6 mm	0...1.6 mm	0...1.6 mm	0...1.6 mm	0...1.6 mm	
Cable length and material						
PNP Normally open	BES0028	BES00FC	BES003P	BES00CK	BES003E	
PNP Normally closed	BES003T5	BES00CE	BES0033	BES00CF		
NPN Normally open	BES0025	BES00C8	BES002U	BES00C9		
NPN Normally closed	BES003T6	BES00C4	BES003TJ	BES00C5		

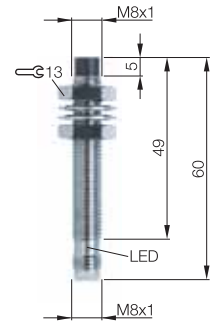
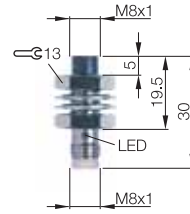
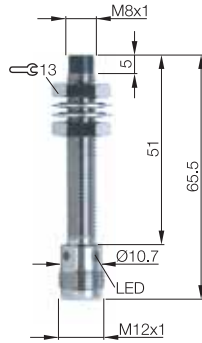
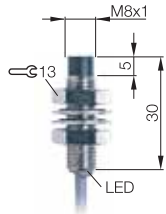
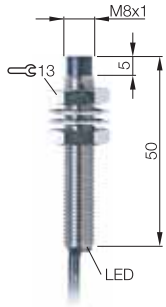
See page 32 for part number reference.



Housing size	M12x1	M12x1	M12x1	M12x1	
Mounting	Flush	Flush	Flush	Flush	
Rated operating distance Sn	2 mm	2 mm	2 mm	2 mm	
Assured operating distance Sa	0...1.6 mm	0...1.6 mm	0...1.6 mm	0...1.6 mm	
Cable length and material	2m PVC	3m PUR	2m PUR		
PNP Normally open	BES005U	BES005R	BES00E4	BES0060	BES00EE
PNP Normally closed	BES00FP	BES005A	BES00E2	BES005F	BES00EA
NPN Normally open	BES00FL	BES0050	BES00E0	BES0054	BES00E8
NPN Normally closed	BES003PR	BES00CY	BES004Y	BES004Y	BES00E6

See page 32 for part number reference.

GlobalProx® DC 3-wire – M8 and M12



Sensing Distance

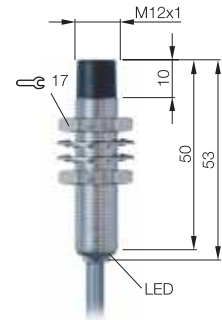
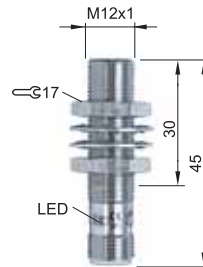
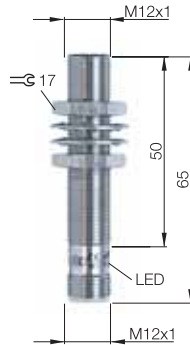
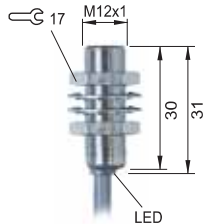
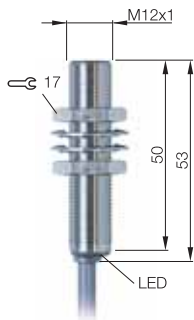
Sensing Distance

Sensing Distance

Sensing Distance

Sensing Distance

M8x1		M8x1		M8x1		M8x1		M8x1	
Non-flush		Non-flush		Non-flush		Non-flush		Non-flush	
4 mm		4 mm		4 mm		4 mm		4 mm	
0...3.2 mm		0...3.2 mm		0...3.2 mm		0...3.2 mm		0...3.2 mm	
2m PVC	2m PUR	2m PVC	2m PUR						
BES0017	BES0016	BES000Z	BES000Y	BES001H	BES000M	BES001J			
BES0015	BES0014	BES000W	BES000U	BES001E	BES000L	BES001F			
BES0013	BES0012	BES000T	BES000R	BES001A	BES000K	BES001C			
BES0011	BES0010	BES000P	BES000N	BES0018	BES000J	BES0019			



Sensing Distance

Sensing Distance

Sensing Distance

Sensing Distance

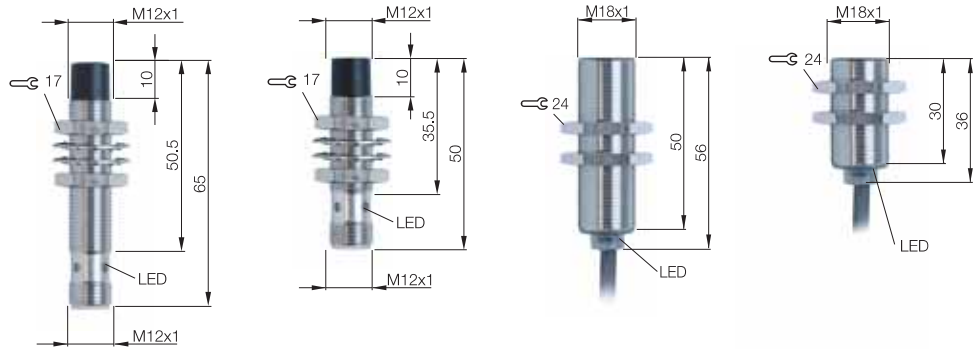
Sensing Distance

M12x1			M12x1		M12x1		M12x1		M12x1	
Flush			Flush		Flush		Flush		Non-flush	
4 mm			4 mm		4 mm		4 mm		8 mm	
0...3.2 mm			0...3.2 mm		0...3.2 mm		0...3.2 mm		0...6.5 mm	
2m PVC	3m PVC	3m PUR	2m PUR					2m PVC	2m PUR	
	BES0001	BES0062	BES00E5	BES0068	BES00EF	BES004M	BES004L			
	BES005M	BES005J	BES00E3	BES005N	BES00EC	BES004J	BES004H			
	BES0057		BES00E1	BES0059	BES00E9	BES004E				
BES03PT		BES0055	BES00CZ	BES004Z	BES00E7	BES0049	BES0048			

Refer to Balluff website for latest technical information.

GlobalProx®

DC 3-wire – M12 and M18

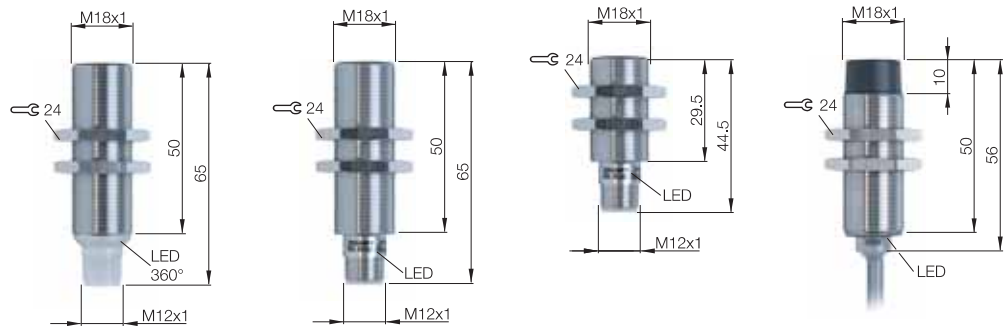


Sensing Distance

Sensing Distance

Housing size	M12x1	M12x1	M18x1	M18x1	
Mounting	Non-flush	Non-flush	Flush	Flush	
Rated operating distance Sn	8 mm	8 mm	5 mm	5 mm	
Assured operating distance Sa	0...6.5 mm	0...6.5 mm	0...4.1 mm	0...4.1 mm	
Cable length and material			3m PVC	3m PUR	2m PUR
PNP Normally open	BES004N	BES01PY	BES0083	BES0080	BES00EN
PNP Normally closed	BES004K	BES01PU	BES007T	BES007P	BES00EL
NPN Normally open	BES004F	BES01PT	BES007C	BES0078	BES00EJ
NPN Normally closed	BES004A	BES01PR	BES03RR		BES03T8

See page 32 for part number reference.



Sensing Distance

Sensing Distance

Sensing Distance

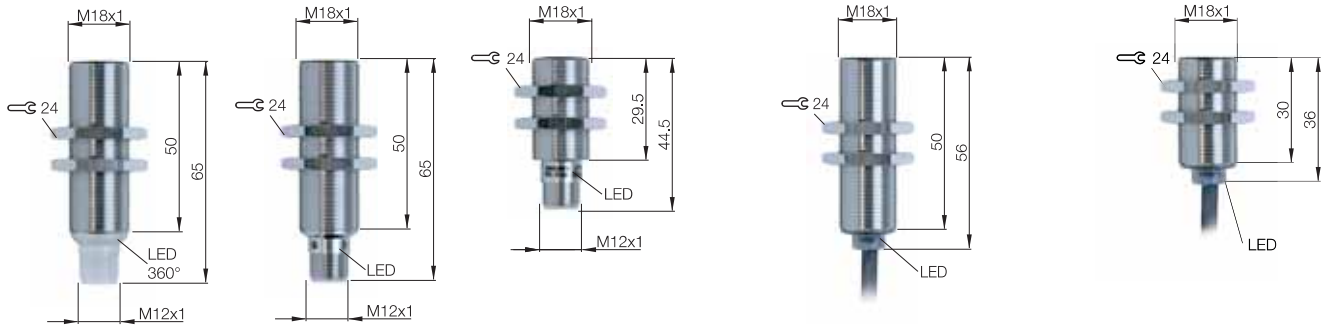
Sensing Distance

Housing size	M18x1	M18x1	M18x1	M18x1	
Mounting	Flush	Flush	Flush	Non-flush	
Rated operating distance Sn	8 mm	8 mm	8 mm	16 mm	
Assured operating distance Sa	0...6.5 mm	0...6.5 mm	0...6.5 mm	0...12.8 mm	
Cable length and material				2m PVC	2m PUR
PNP Normally open	BES008M	BES008L	BES00EZ	BES006Z	BES006Y
PNP Normally closed	BES007Y	BES03RP	BES00EW	BES006U	BES006T
NPN Normally open	BES007M	BES007L	BES00ET	BES006P	BES006N
NPN Normally closed	BES03T9	BES0077	BES03RN	BES006L	BES006K

See page 32 for part number reference.

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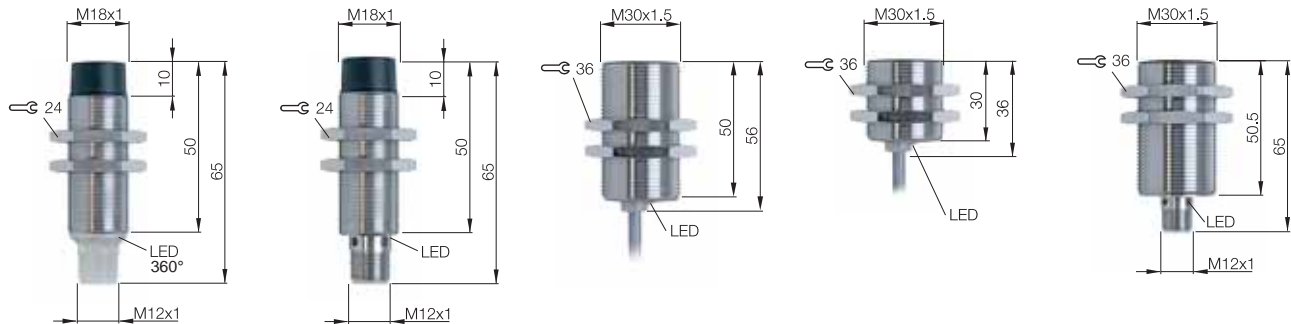
DC 3-wire – M18 and M30



⌘ Sensing Distance

⌘ Sensing Distance

M18x1	M18x1	M18x1	M18x1				M18x1
Flush	Flush	Flush	Flush	Flush	Flush	Flush	Flush
5 mm	5 mm	5 mm	8 mm	8 mm	8 mm	8 mm	8 mm
0...4.1 mm	0...4.1 mm	0...4.1 mm	0...6.5 mm				0...6.5 mm
			2m PVC	3m PVC	3m PUR	5m PUR	
BES0087	BES0086	BES00EY		BES008F	BES0089		BES00EP
BES007W		BES00EU	BES03PY			BES03PM	BES00EM
BES007F		BES00ER		BES007J	BES007H		BES00EK
BES0076		BES03T7	BES03T4				



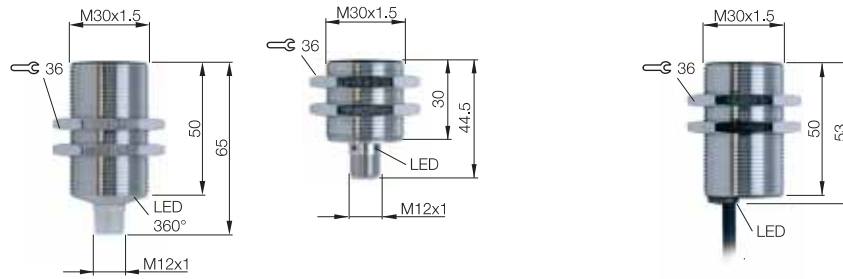
⌘ Sensing Distance

⌘ Sensing Distance

M18x1	M18x1	M30x1.5	M30x1.5	M30x1.5
Non-flush	Non-flush	Flush	Flush	Flush
16 mm	16 mm	10 mm	10 mm	10 mm
0...12.8 mm	0...12.8 mm	0...8.1 mm	0...8.1 mm	0...8.1 mm
		2m PVC	3m PUR	2m PUR
BES0070	BES03RM	BES00A0	BES009Y	BES00F3
BES006W	BES03RL	BES009M	BES009L	BES03TC
BES006R		BES009C	BES0099	BES00F0
BES006M		BES0096	BES0095	BES03TE
				BES00A3

Refer to Balluff website for latest technical information.

GlobalProx® DC 3-wire – M30



Housing size	M30x1.5	M30x1.5	M30x1.5		
Mounting	Flush	Flush	Flush		
Rated operating distance Sn	10 mm	10 mm	15 mm		
Assured operating distance Sa	0...8.1 mm	0...8.1 mm	0...12.2 mm		
Cable length and material			2m PVC	2m PUR	3m PUR
PNP Normally open	BES00A4	BES00F8	BES00AA		BES00A6
PNP Normally closed	BES009P	BES00F6	BES009T	BES009R	
NPN Normally open	BES009H	BES00F5	BES03RH		
NPN Normally closed	BES0097	BES03TA	BES03RJ		

See page 32 for part number reference.



Housing size	M30x1.5	M30x1.5	M30x1.5	M30x1.5
Mounting	Flush	Non-flush	Non-flush	Non-flush
Rated operating distance Sn	15 mm	30 mm	30 mm	30 mm
Assured operating distance Sa	0...12.0 mm	0...24.3 mm	0...24.3 mm	0...24.3 mm
Cable length and material		2m PVC	2m PUR	
PNP Normally open	BES00F9	BES00AY	BES00AW	BES00AZ
PNP Normally closed	BES00F7	BES00AT	BES00AR	BES00AU
NPN Normally open		BES00AN	BES00AM	BES00AP
NPN Normally closed		BES00AK	BES00AJ	BES00AL
				BES03RE
				BES03RC

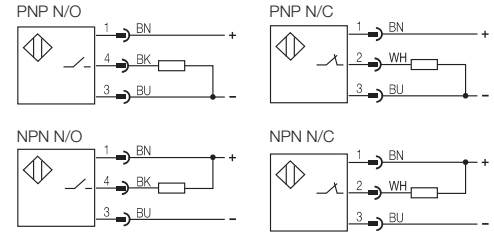
See page 32 for part number reference.

GlobalProx® DC 3-wire – M30 and Wiring Diagrams



Wiring diagrams for 4-wire cordsets

(See page 29 for cordsets.)



Sensing Distance

M30x1.5
Flush
15 mm
0...12.0 mm
2m PUR
BES00F4
BES00F2
BES00F1
BES03RF

Sensing Distance

M30x1.5
Flush
15 mm
0...12.2 mm
BES00AF
BES03RK

Sensing Distance

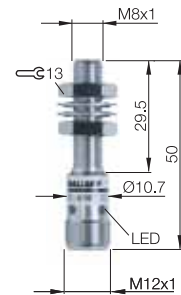
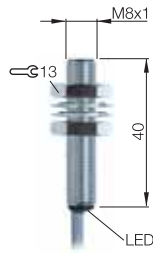
M30x1.5
Flush
15 mm
0...12.2 mm
BES00AH
BES009U
BES009J
BES0098



Refer to Balluff website for latest technical information.

GlobalProx®

DC 2-wire – M8, M18, and M30



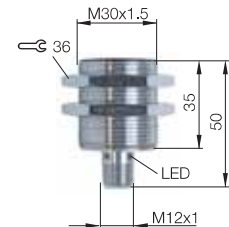
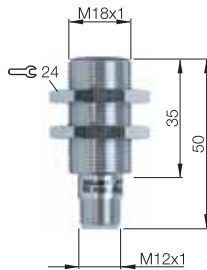
 Sensing Distance

 Sensing Distance

 Sensing Distance

Housing size	M8x1	M8x1	M8x1	
Mounting	Flush	Flush	Flush	
Rated operating distance Sn	2 mm	2 mm	2 mm	
Assured operating distance Sa	0...1.6 mm	0...1.6 mm	0...1.6 mm	
Cable length and material	2m PVC	2m PUR	.3m PUR	
Polarized	Normally open	BES001L	BES03HC	BES001Z
Polarized	Normally closed	BES024R	BES03H9	BES03H8
Non-polarized	Normally open	BES001T	BES03HJ	
Non-polarized	Normally closed	BES024T	BES03HE	
				BES0022
				BES024N
				BES001Y
				BES024P

See page 32 for part number reference.



 Sensing Distance

 Sensing Distance

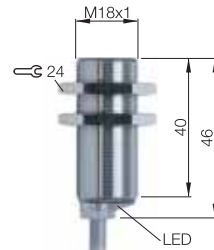
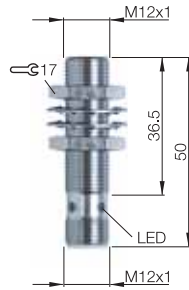
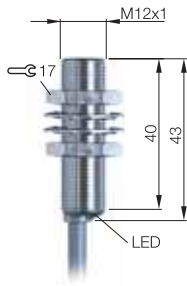
 Sensing Distance

Housing size	M18x1	M18x1	M30x1.5	
Mounting	Flush	Flush	Flush	
Rated operating distance Sn	7 mm	7 mm	15 mm	
Assured operating distance Sa	0...5.7 mm	0...5.6 mm	0...12 mm	
Cable length and material				
Polarized	Normally open	BES0328	BES0069	BES008W
Polarized	Normally closed	BES02NL	BES02NM	BES027J
Non-polarized	Normally open	BES02NR	BES02NP	BES0094
Non-polarized	Normally closed	BES02NN	BES006A	BES027H

See page 32 for part number reference.

GlobalProx®

DC 2-wire – M12, M18, and M30



Sensing Distance

M12x1
Flush
3 mm
0...2.4 mm
BES0045
BES024L
BES004U
BES024M

Sensing Distance

M12x1
Flush
3 mm
0...2.4 mm
BES0042
BES03HK

Sensing Distance

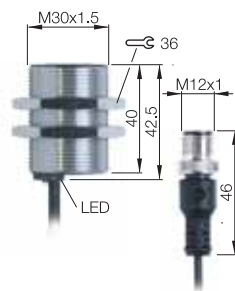
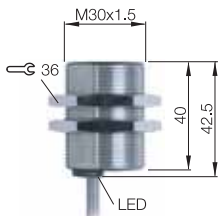
M12x1
Flush
3 mm
0...2.4 mm
BES003Z
BES024J
BES0041
BES024K

Sensing Distance

M18x1
Flush
7 mm
0...5.7 mm
BES00FA
BES02NT
BES0073
BES02NU

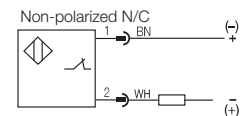
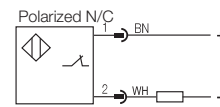
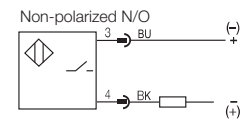
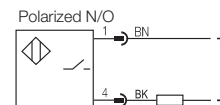
Sensing Distance

M18x1
Flush
7 mm
0...5.7 mm
BES006C
BES039L



Wiring diagrams for 4-wire cordsets

(See page 29 for cordsets.)



Sensing Distance

M30x1.5
Flush
15 mm
0...12.2 mm
2m PVC
BES008R
BES0279
BES0091
BES027A

Sensing Distance

M30x1.5
Flush
15 mm
0...12.2 mm
.3m PUR
BES03FW
BES03FY
BES03FZ
BES03H0
BES008Y
BES03H4

Refer to Balluff website for latest technical information.

Global.CProx capacitive proximity sensors — object and level detection sensors that are competitively priced with above-average features

Balluff's economical Global.CProx line of capacitive sensors offers a broad range of products to reliably solve object and level detection applications. The Global.CProx family includes a wide array of tubular M12, M18 and M30 sensors available with either M12 connectors or pre-wired cables. Built to Balluff's high standards, all of the Global.CProx sensors offer reverse polarity and short circuit protection with enhanced EMC protection. Balluff's attention to quality, superior sensor design, and performance means better reliability, less down time, and higher productivity.

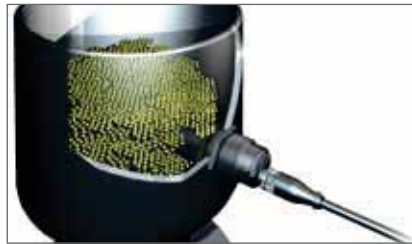
Flush-mount capacitive sensors employ a concentrated electrical field to detect objects up to 15mm away, regardless of color, texture or material. Non-flush mount versions of the Global.CProx sensor line are ideal for level detection of bulk material or liquids either directly or through a plastic or glass container wall. Non-flush sensors make use of a spherical electrical field that compensates for material adhesion with sensing distances up to 25mm.

Object Detection



- Flush switching characteristics
- Extended switching distances
- Recognition of plastic parts

Level Detection



- Improved adhesion compensation through non-flush switching characteristic
- User adjustable sensitivity

Global.CProx Features

- Stainless steel or plastic housings
- PNP and NPN versions with normally open or normally closed outputs
- Large Green power on LED
- Large Yellow output function LED
- High EMC noise immunity

Standard Specifications

Rated supply voltage	24 V DC
Supply voltage range	10...30 V DC
Max. load current	100 mA
Short circuit protection	Yes
Polarity reversal protection	Yes
Switching frequency	100 Hz
Power indicator	Green LED
Output function indicator	Yellow LED
Degree of protection	IP67
Temperature range	-25° C...+85° C
Approvals	CE and cULus
Cable length and material	2m PUR

Global.CProx™



Object Detection



Housing size	M12x1	M12x1	M12x1	M12x1
Mounting	Flush	Flush	Flush	Flush
Rated switching distance Sn	1...4 mm	1...4 mm	1...4 mm	1...4 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00P0	BCS00R4	BCS00PJ	BCS00PU
PNP Normally closed	BCS00P1	BCS00P8	BCS00PK	BCS00PW
NPN Normally open	BCS00P2	BCS00P9	BCS00PL	BCS00PY
NPN Normally closed	BCS00P3	BCS00PA	BCS00PM	BCS00PZ

See page 34 for part number reference.

Level Detection



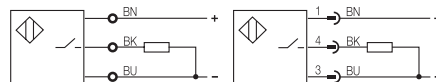
Housing size	M12x1	M12x1	M12x1	M12x1
Mounting	Non-flush	Non-flush	Non-flush	Non-flush
Rated switching distance Sn	1...8 mm	1...8 mm	1...8 mm	1...8 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00P4	BCS00PC	BCS00PN	BCS00R0
PNP Normally closed	BCS00P5	BCS00PE	BCS00PP	BCS00R1
NPN Normally open	BCS00P6	BCS00PF	BCS00PR	BCS00R2
NPN Normally closed	BCS00P7	BCS00PH	BCS00PT	BCS00R3

See page 34 for part number reference.

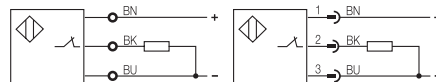
Wiring diagrams (See page 29 for cordsets.)

PNP (+) sourcing

Normally open

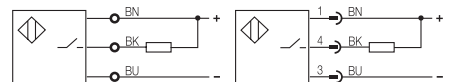


Normally closed

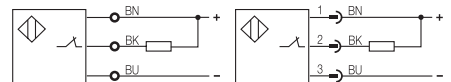


NPN (-) sinking

Normally open



Normally closed



Refer to Balluff website for latest technical information.

Global.CProx M18

Object Detection



Housing size	M18x1	M18x1	M18x1	M18x1
Mounting	Flush	Flush	Flush	Flush
Rated switching distance Sn	2...8 mm	2...8 mm	2...8 mm	2...8 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00MF	BCS00LK	BCS00M8	BCS00NZ
PNP Normally closed	BCS00M4	BCS00LR	BCS00MH	BCS00M1
NPN Normally open	BCS00M5	BCS00LN	BCS00MJ	BCS00M2
NPN Normally closed	BCS00M6	BCS00LP	BCS00MK	BCS00M3

See page 34 for part number reference.

Level Detection



Housing size	M18x1	M18x1	M18x1	M18x1
Mounting	Non-flush	Non-flush	Non-flush	Non-flush
Rated switching distance Sn	2...15 mm	2...15 mm	2...15 mm	2...15 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00ME	BCS00M7	BCS00LM	BCS00LL
PNP Normally closed	BCS00ML	BCS00M9	BCS00LT	BCS00LY
NPN Normally open	BCS00MM	BCS00MA	BCS00LU	BCS00LZ
NPN Normally closed	BCS00MN	BCS00MC	BCS00LW	BCS00M0

See page 34 for part number reference.

Global.CProx M30

Object Detection



Housing size	M30x1.5	M30x1.5	M30x1.5	M30x1.5
Mounting	Flush	Flush	Flush	Flush
Rated switching distance S_n	2...15 mm	2...15 mm	2...15 mm	2...15 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00MR	BCS00N2	BCS00NA	BCS00NM
PNP Normally closed	BCS00MT	BCS00N3	BCS00NC	BCS00NN
NPN Normally open	BCS00MU	BCS00N4	BCS00NE	BCS00NP
NPN Normally closed	BCS00MW	BCS00N5	BCS00NF	BCS00NR

See page 34 for part number reference.

Level Detection



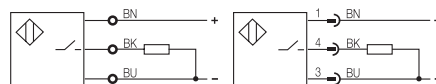
Housing size	M30x1.5	M30x1.5	M30x1.5	M30x1.5
Mounting	Non-flush	Non-flush	Non-flush	Non-flush
Rated switching distance S_n	1...25 mm	1...25 mm	1...25 mm	1...25 mm
Housing/Sensing face material	Stainless Steel/PBT	Stainless Steel/PBT	PBT/PBT	PBT/PBT
Cable length and material				
PNP Normally open	BCS00MY	BCS00N6	BCS00NH	BCS00NT
PNP Normally closed	BCS00MZ	BCS00N7	BCS00NJ	BCS00NU
NPN Normally open	BCS00N0	BCS00N8	BCS00NK	BCS00NW
NPN Normally closed	BCS00N1	BCS00N9	BCS00NL	BCS00NY

See page 34 for part number reference.

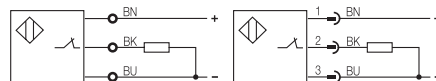
Wiring diagrams (See page 29 for cordsets.)

PNP (+) sourcing

Normally open

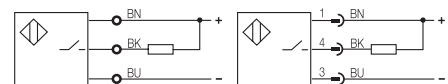


Normally closed

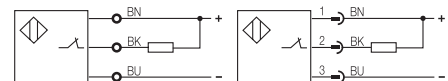


NPN (-) sinking

Normally open



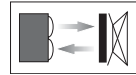
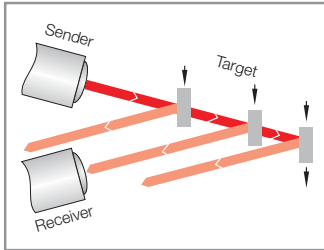
Normally closed



Refer to Balluff website for latest technical information.

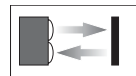
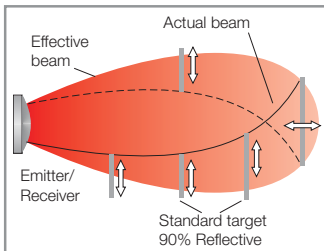
GlobalEye™ – The best choice for everyday sensing needs

Simple to use, easy to install, economically priced – these characteristics describe the GlobalEye line of photoelectric sensors from Balluff. Featuring complete families of background suppression, diffuse, retroreflective, and thru-beam technologies, and five body styles to choose from, there is a solution waiting for your application. For standard specifications, refer to page 28.



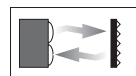
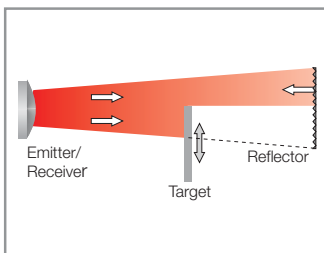
Background Suppression – page 19

An advanced sensing technology, Background Suppression sensors are able to sense targets and ignore objects behind them. This is made possible through either a mechanical or electronic adjustment on the receiving element that looks for the light reflected off of the target. These single-piece sensors feature an adjustable sensing range that lets you sense your target at a specific point within the sensor's range.



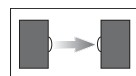
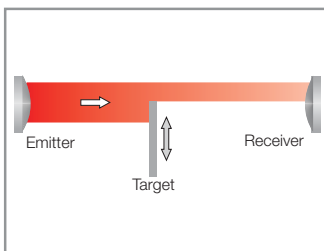
Diffuse – page 20

This standard sensing mode relies on the target to reflect light back to the receiver to turn on its output. Featuring a single piece design, these sensors are less expensive than Background Suppression sensors since they do not have the advanced technology necessary to ignore objects behind the desired target. Diffuse sensors also have an adjustment potentiometer or teach pushbutton that allows you to set the desired sensing range of the target.



Retroreflective – page 24

In Retroreflective sensing, a self-contained sensor with both an emitter and receiver emits light towards a reflector mounted within its rated sensing range. The output of the sensor is actuated when a target is passed into the effective beam of the sensor and it blocks the return of light to the receiver. The primary advantage of Retroreflective sensors over Diffuse or Background Suppression sensors is longer sensing range.



Thru-beam – page 26

The most reliable form of photoelectric sensing, Thru-beam sensors include a separate emitter and receiver that are aligned such that the maximum amount of light from the emitter hits the receiver. The output of the receiver is actuated when a target passes between the sensors and blocks the light to the receiver. Thru-beam sensors also feature the longest sensing range of these modes since all of the light from the emitter is directed at the receiver.

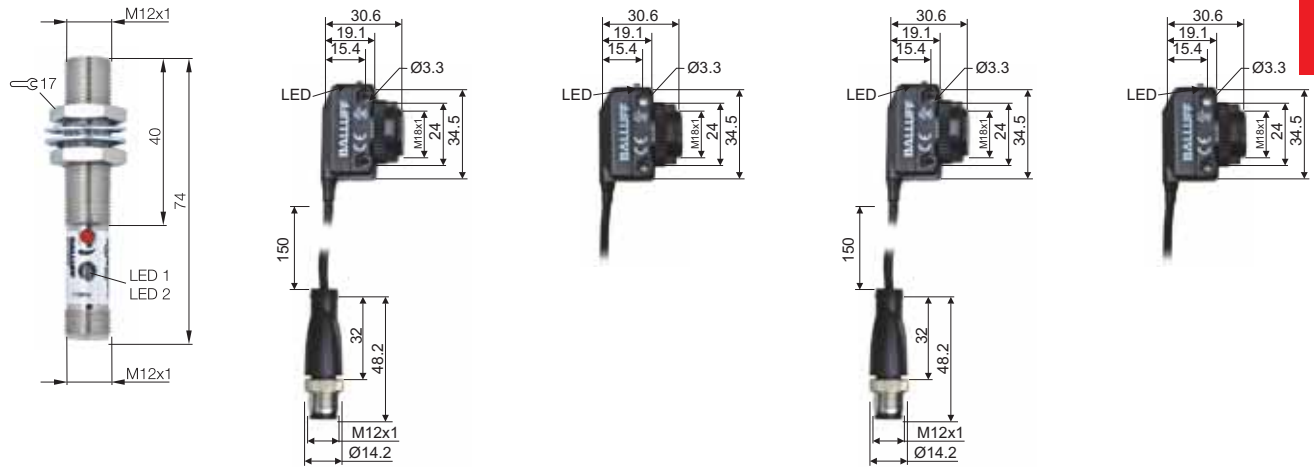
Body style		
Type	Sensing range	
Light source		
Cable length and material		
PNP	NO Light-on + Dark-on	⑥
NPN	NO Light-on + Dark-on	⑦
PNP	NO + NC Light-on	⑨
NPN	NO + NC Light-on	⑩
PNP	NO + NC Light-on + Dark-on	⑫

① = number indicates wiring diagram on page 28
See page 34 for part number reference.

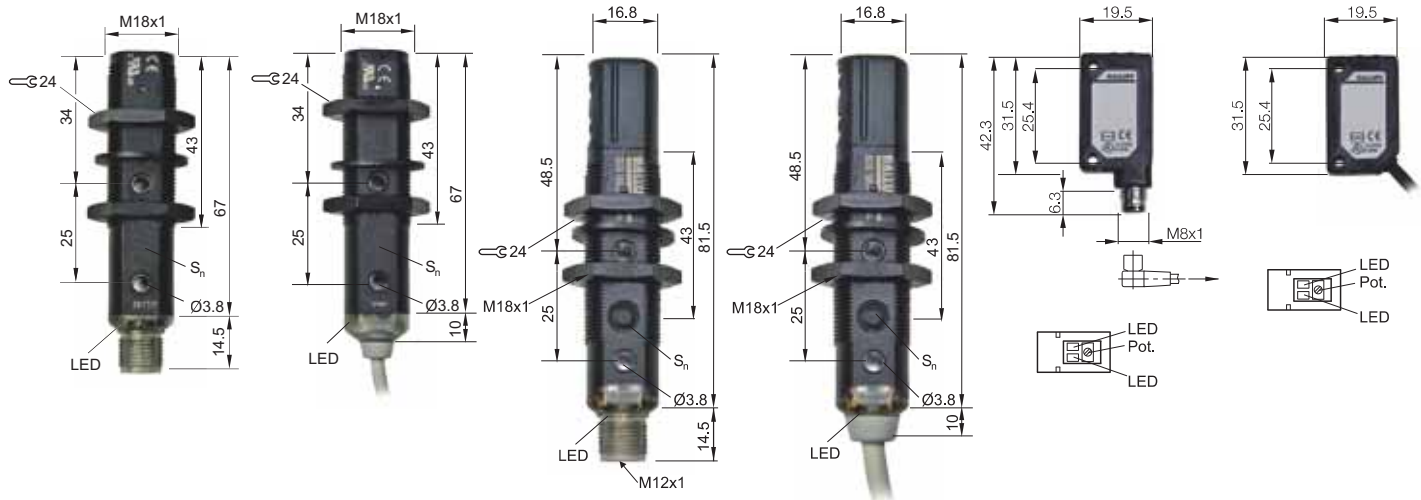
Body style		
Type	Sensing range	
Light source		
Cable length and material		
PNP	NO + NC Light-on	⑨
NPN	NO + NC Light-on	⑩
PNP	NO Light-on	①
NPN	NO Light-on	③
PNP	NC Dark-on	②
NPN	NC Dark-on	④

① = number indicates wiring diagram on page 28
See page 34 for part number reference.

GlobalEye™

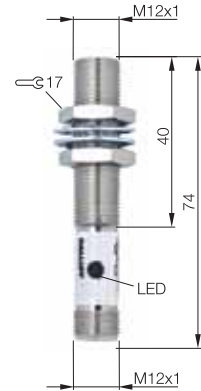
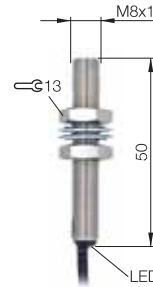
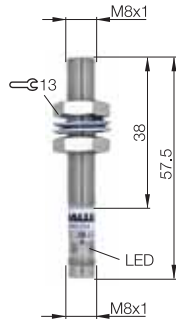


12 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
Straight optics	90° optics	90° optics	90° optics	90° optics
60 mm	50 mm	50 mm	100 mm	100 mm
Visible red LED	Visible red LED	Visible red LED	Visible red LED	Visible red LED
	.15m PVC	2m PVC	.15m PVC	2m PVC
	BOS014R BOS014U	BOS014P BOS014T	BOS019A BOS019C	BOS019E BOS019F
BOS007T				



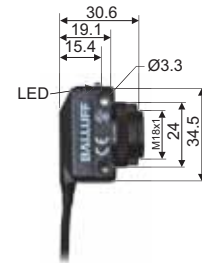
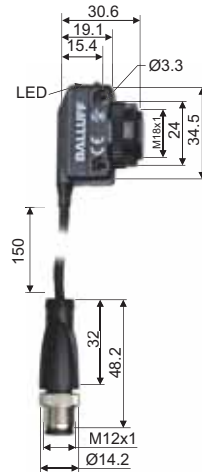
Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Small block	Small block
Straight optics	Straight optics	90° optics	90° optics	90° optics	90° optics
100 mm	100 mm	100 mm	100 mm	200 mm	200 mm
Visible red LED	Visible red LED	Visible red LED	Visible red LED	Visible red LED	Visible red LED
	2m PVC		2m PVC		2m PVC
BOS000JM BOS000HR	BOS000JL BOS000HP	BOS000LH BOS000KY	BOS000LF BOS000KW	BOS012A BOS011F BOS011Z BOS0112	BOS0129 BOS011E BOS011Y BOS0111

Refer to Balluff website for latest technical information.



Body style	8 mm threaded	8 mm threaded	12 mm threaded	
Type	Straight optics	Straight optics	Straight optics	
Sensing range	55 mm	55 mm	23 mm Fixed Focus	
Light source	Visible red LED	Visible red LED	Visible red LED	
Cable length and material		3m PUR		
PNP NO Light-on	① BOS0006	BOS0005	BOS007R	
NPN NO Light-on	③ BOS0002	BOS014M		
PNP NC Dark-on	② BOS0004	BOS0003		
NPN NC Dark-on	④ BOS0001	BOS014N		

① = number indicates wiring diagram on page 28
See page 34 for part number reference.



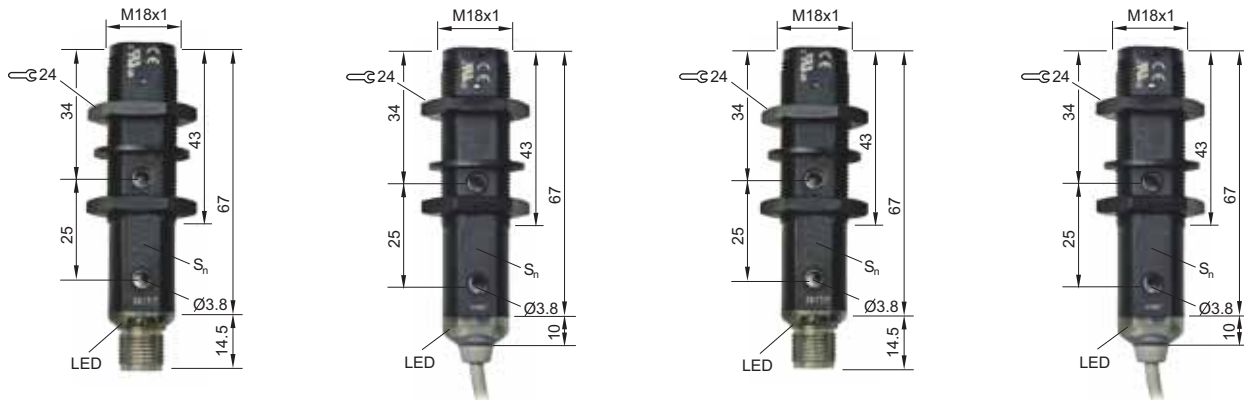
Body style	Combination 18 mm threaded	Combination 18 mm threaded	
Type	90° optics	90° optics	
Sensing range	450 mm	450 mm	
Light source	Infrared LED	Infrared LED	
Cable length and material	.15m PVC	2m PVC	
PNP NO Light-on + Dark-on	⑥ BOS012P	BOS012R	
NPN NO Light-on + Dark-on	⑦ BOS012F	BOS012H	
PNP NO + NC Light-on	⑥		
NPN NO + NC Light-on	⑦		

① = number indicates wiring diagram on page 28
See page 34 for part number reference.

GlobalEye Diffuse Sensor

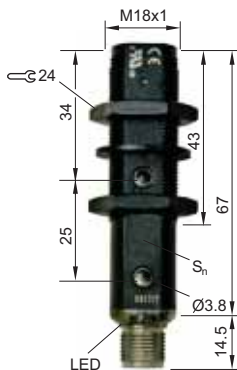


12 mm threaded	12 mm threaded	12 mm threaded	12 mm threaded	12 mm threaded	12 mm threaded
Straight optics	Straight optics	Straight optics	Straight optics	Straight optics	Straight optics
100 mm	100 mm	200 mm	200 mm	400 mm	400 mm
Visible red LED	Visible red LED	Visible red LED	Visible red LED	Infrared	Infrared
	3m PVC		3m PVC		3m PVC
BOS0012	BOS0010	BOS0043	BOS0013	BOS0045	BOS000Y
BOS000H	BOS000F	BOS000A		BOS000E	BOS000C
BOS000P	BOS000N	BOS000T	BOS000R	BOS0044	BOS000L
BOS0042		BOS000K	BOS000J	BOS0007	



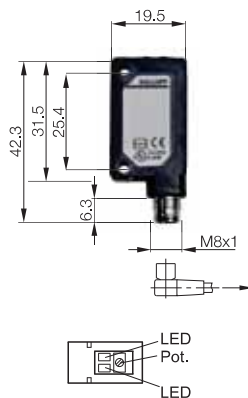
Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
Straight optics	Straight optics	Straight optics	Straight optics
400 mm	400 mm	700 mm	700 mm
Infrared LED	Infrared LED	Infrared LED	Infrared LED
	2m PVC		2m PVC
BOS00JZ	BOS00JY	BOS00K1	BOS00K0
BOS00J3	BOS00J1	BOS00J5	BOS00J4

Refer to Balluff website for latest technical information.



Body style	Combination 18 mm threaded	Combination 18 mm threaded	
Type	Straight optics	Straight optics	
Sensing range	350 mm	350 mm	
Light source	Class 1 red laser	Class 1 red laser	
Cable length and material		2m PVC	
PNP NO + NC Light-on	⑥ BOS00JP	BOS00JN	
NPN NO + NC Light-on	⑦ BOS00HU	BOS00HT	

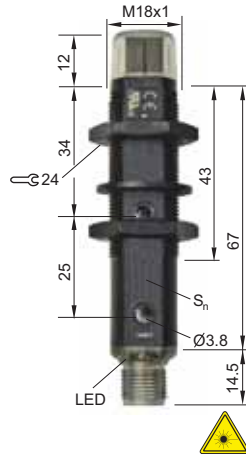
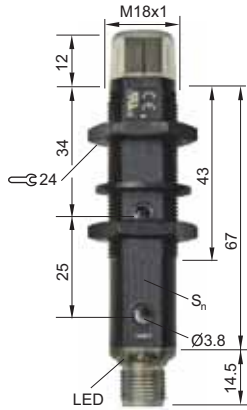
① = number indicates wiring diagram on page 28
See page 34 for part number reference.



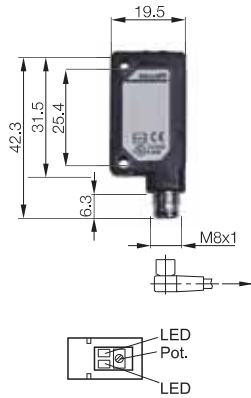
Body style	Small block	Small block	
Type	90° optics	90° optics	
Sensing range	200 mm	200 mm	
Light source	Visible red LED	Visible red LED	
Cable length and material		2m PVC	
PNP NO Light-on	① BOS0128	BOS0127	
NPN NO Light-on	③ BOS011C	BOS011A	
PNP NC Dark-on	② BOS011W	BOS011U	
NPN NC Dark-on	④ BOS011O	BOS010Z	

① = number indicates wiring diagram on page 28
See page 34 for part number reference.

GlobalEye Diffuse Sensor



Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
90° optics	90° optics	90° optics	90° optics
400 mm	400 mm	250 mm	250 mm
Infrared LED	Infrared LED	Class 1 red laser	Class 1 red laser
BOS00LT	BOS00LR	BOS00LK	BOS00LJ
BOS00L6	BOS00L5	BOS00L0	BOS00KZ



Small block	Small block
90° optics	90° optics
900 mm	900 mm
Infrared LED	Infrared LED
	2m PVC
BOS0124	BOS0123
BOS0117	BOS0116
BOS011M	BOS011K
BOS010T	BOS010P

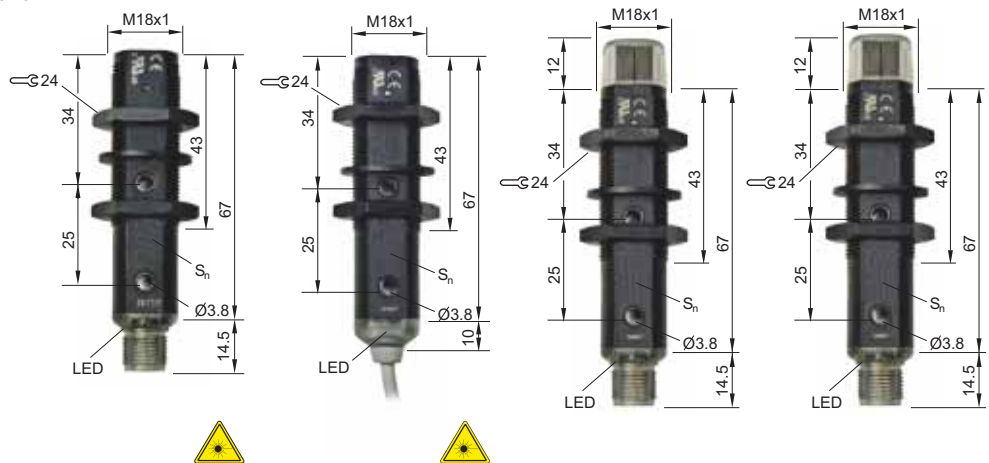
Refer to Balluff website for latest technical information.

GlobalEye Retroreflective Sensor



Body style	8 mm threaded	8 mm threaded	12 mm threaded	12 mm threaded	
Type	Straight optics	Straight optics	Straight optics	Straight optics	
Sensing range	550 mm (polarized)	550 mm (polarized)	1.5 m (polarized)	1.5 m (polarized)	
Light source	Visible red LED	Visible red LED	Visible red LED	Visible red LED	
Cable length and material		2m PUR		3m PVC	
PNP NO Light-on + Dark-on	⑥				
NPN NO Light-on + Dark-on	⑦				
PNP NO Dark-on	①	BOS00RC	BOS00RA	BOS00RE	BOS00RK
NPN NO Dark-on	③	BOS00R7	BOS014Z	BOS00RF	
PNP NC Dark-on	②	BOS00R9	BOS00R8	BOS00RJ	BOS00RH
NPN NC Light-on	④	BOS00R6	BOS014Y		
PNP NO + NC Dark-on	⑥				
NPN NO + NC Dark-on	⑦				

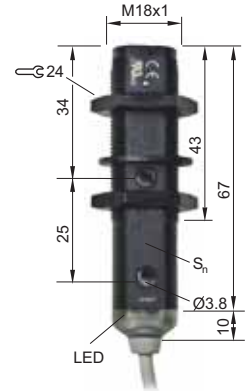
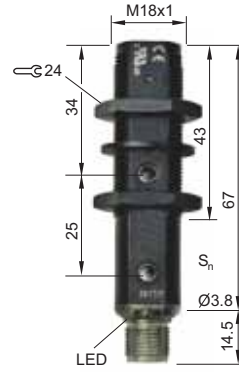
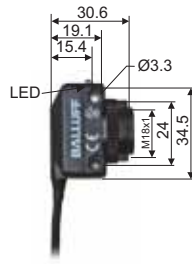
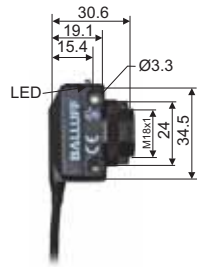
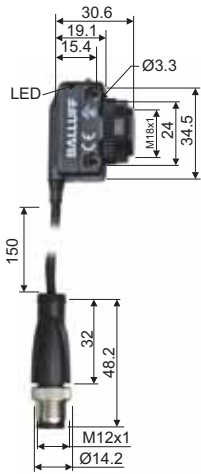
① = number indicates wiring diagram on page 28
See page 35 for part number reference.



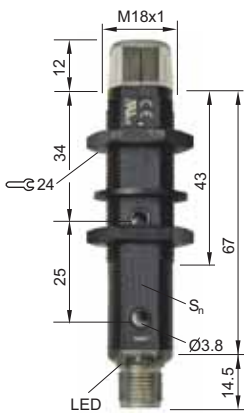
Body style	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	
Type	Straight optics	Straight optics	90° optics	90° optics	
Sensing range	16 m (polarized)	16 m (polarized)	3 m (polarized)	3 m (polarized)	
Light source	Class 1 red laser	Class 1 red laser	Visible red LED	Visible red LED	
Cable length and material		2m PVC			
PNP NO Dark-on	①				
NPN NO Dark-on	③				
PNP NC Dark-on	②				
NPN NC Light-on	④				
PNP NO + NC Dark-on	⑥	BOS00JT	BOS00JR	BOS00LW	BOS00LU
NPN NO + NC Dark-on	⑦	BOS00HY	BOS00HW	BOS00L8	BOS00L7

① = number indicates wiring diagram on page 28
See page 35 for part number reference.

GlobalEye Retroreflective Sensor

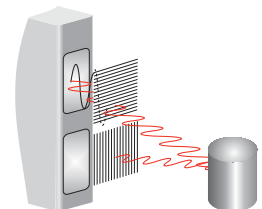


Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
90° optics	90° optics	90° optics	Straight optics	Straight optics
3.5 m (polarized)	3.5 m (polarized)	6.5 m (polarized)	4.5 m (polarized)	4.5 m (polarized)
Visible red LED	Visible red LED	Infrared	Visible red LED	Visible red LED
.15m PVC	2m PVC	2m PVC		2m PVC
BOS012W BOS012L	BOS012Y BOS012M	BOS012Z BOS012N		
			BOS00K3 BOS00J7	BOS00K2 BOS00J6



Polarized Retroreflective Sensors

In the illustration, light emitted by the sensor is filtered to take the vertical component out of the waveform. The light is then reflected off of a corner-cube reflector, which changes its orientation by 90 degrees. An additional filter is placed on the receiver lens to stop any light with the wrong orientation from getting through to the receiver, including ambient light or light reflecting from a shiny surface (like a mirror). This method of filtering allows Polarized Retroreflective sensors to see all kinds of targets.



Combination 18 mm threaded	Combination 18 mm threaded	Small block	Small block
90° optics	90° optics	90° optics	90° optics
9 m (polarized)	9 m (polarized)	4 m (polarized)	4 m (polarized)
Class 1 red laser	Class 1 red laser	Visible red LED	Visible red LED
			2m PVC
BOS00LM BOS00L2	BOS00LL BOS00L1	BOS012E BOS011J BOS0122 BOS0115	BOS012C BOS011H BOS0120 BOS0113

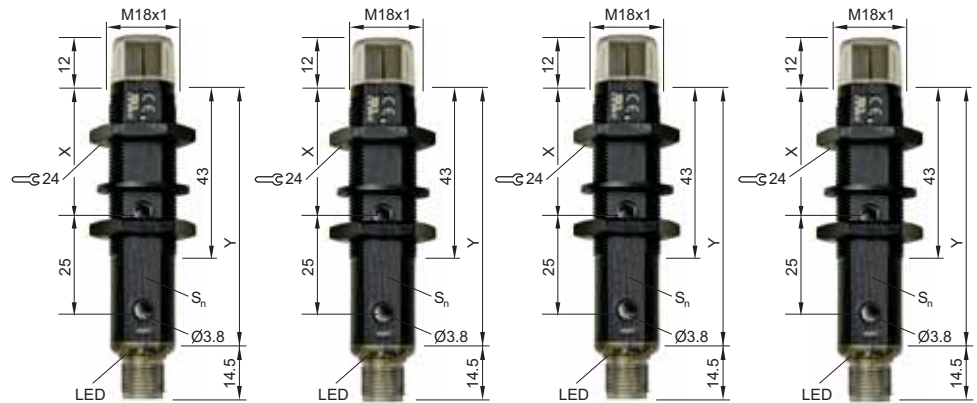
Refer to Balluff website for latest technical information.

GlobalEye Thru-beam Sensor



Body style	8 mm threaded	8 mm threaded	12 mm threaded	12 mm threaded
Type	Straight optics	Straight optics	Straight optics	Straight optics
Sensing range	1.1 m	1.1 m	5 m	5 m
Light source	Visible red	Visible red	Visible red	Visible red
Cable length and material		3m PUR		3m PVC
Receiver PNP NO Dark-on	① BOS00W9	BOS018F		
Receiver NPN NO Dark-on	③ BOS0154	BOS018C		
Receiver PNP NC Dark-on	② BOS0153	BOS018E		
Receiver NPN NC Dark-on	④ BOS0152	BOS018A		
Receiver PNP NO + NC Light-on + Dark-on	⑥			
Receiver NPN NO + NC Light-on + Dark-on	⑦			
Receiver PNP NO + NC Dark-on	⑥		BOS00UE	BOS00UC
Receiver NPN NO + NC Dark-on	⑦		BOS00UA	
Emitter	⑤ BOS0151	BOS018H		
Emitter	⑨			
Emitter	⑪		BOS00W2	BOS00UW

① = number indicates wiring diagram on page 28
See page 35 for part number reference.



Receiver: X = 34, Y = 67
Emitter: X = 24, Y = 57

Receiver: X = 34, Y = 67
Emitter: X = 24, Y = 57

Receiver: X = 34, Y = 67
Emitter: X = 24, Y = 57



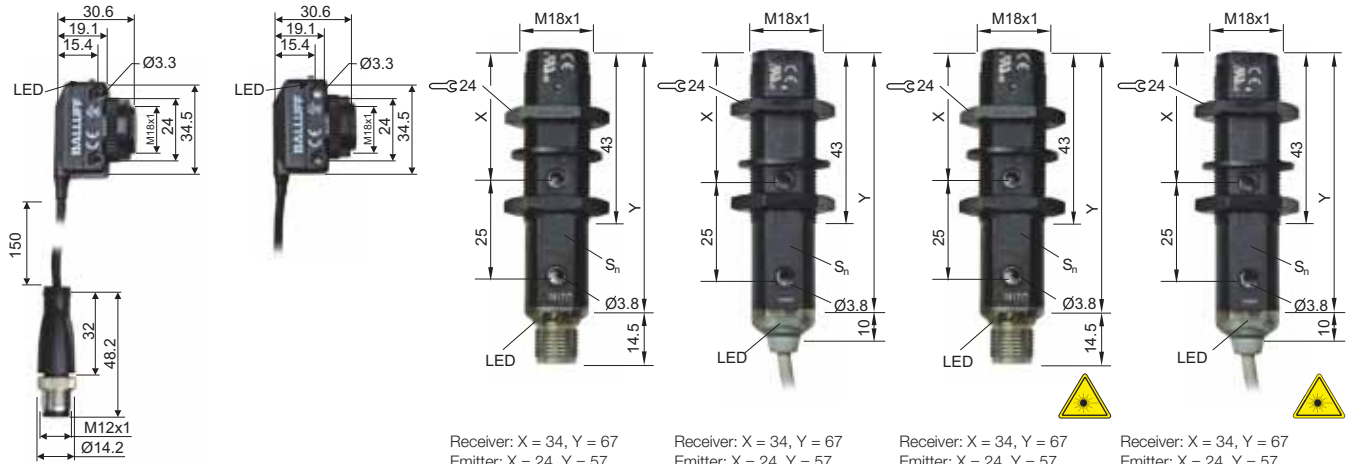
Receiver: X = 34, Y = 67
Emitter: X = 24, Y = 57



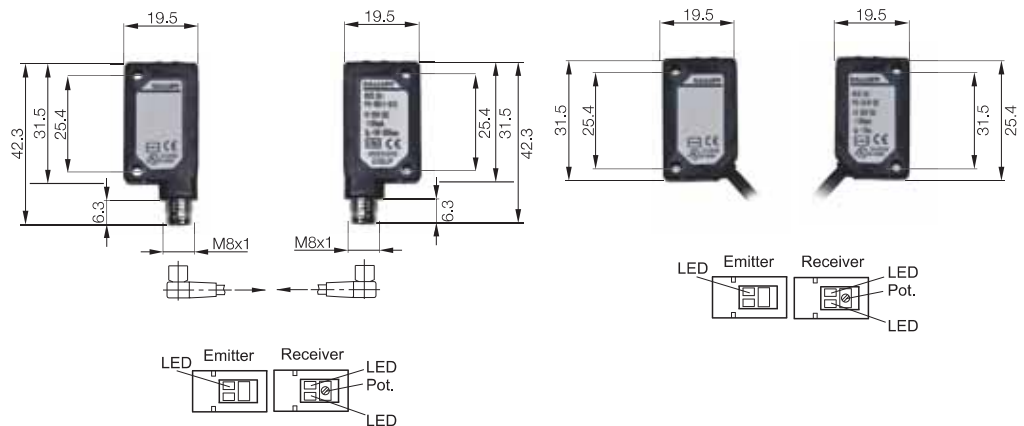
Body style	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
Type	90° optics	90° optics	90° optics	90° optics
Sensing range	10 m	10 m	50 m	50 m
Light source	Infrared LED	Infrared LED	Class 1 red laser	Class 1 red laser
Cable length and material				
Receiver PNP NO + NC Dark-on	⑥ BOS00CW	BOS00CU	BOS00CT	BOS00CR
Receiver NPN NO + NC Dark-on	⑦ BOS00CP	BOS00CN	BOS00CM	BOS00CL
Emitter	⑨ BOS00EW	BOS00EU	BOS00ET	BOS00ER

① = number indicates wiring diagram on page 28
See page 35 for part number reference.

GlobalEye Thru-beam Sensor



	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded
	90° optics	90° optics	Straight optics	Straight optics	Straight optics	Straight optics
	20 m	20 m	15 m	15 m	60 m	60 m
	Infrared LED	Infrared LED	Infrared LED	Infrared LED	Class 1 red laser	Class 1 red laser
	.15m PVC	2m PVC				
	BOS012T	BOS012U				
	BOS012J	BOS012K				
			BOS00CK	BOS00CJ	BOS00CH	BOS00CF
			BOS00CE	BOS00CC	BOS00CA	BOS00C9
	BOS0130	BOS0131	BOS00EP	BOS00EN	BOS00EM	BOS00EL



Body style	Small block	Small block
Type	90° optics	90° optics
Sensing range	10 m	50 m
Light source	Infrared LED	Infrared LED
Cable length and material		
PNP NO Dark-on (E-R set) ① ⑤	BOS0126*	BOS0125*
NPN NO Dark-on (E-R set) ③ ⑤	BOS0119*	BOS0118*
PNP NC Light-on (E-R set) ② ⑤	BOS0111*	BOS011N*
NPN NC Light-on (E-R set) ④ ⑤	BOS010Y*	BOS010U*

*Emitter-Receiver set
See page 35 for part number reference.

Refer to Balluff website for latest technical information.

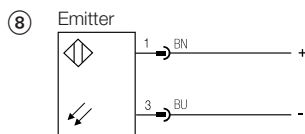
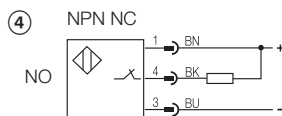
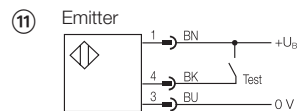
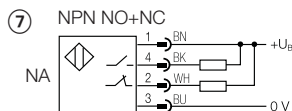
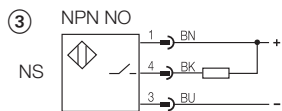
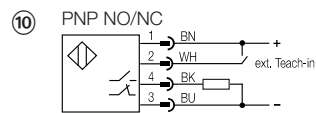
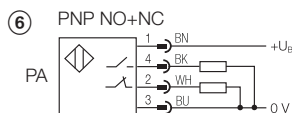
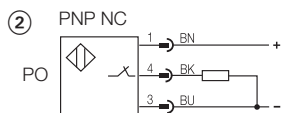
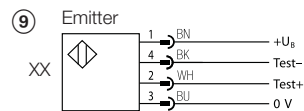
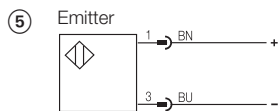
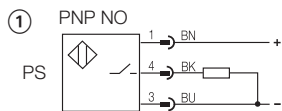
Standard Specifications

	BOS 08M	BOS 12M	BOS 11K	BOS 18KF/KW	BOS 5K
Form Factor	8 mm threaded	12 mm threaded	Combination 18 mm threaded	Combination 18 mm threaded	Small block
Optics orientation	Straight	Straight	90°	Straight (18KF), 90° (18KW)	90°
Supply voltage	10...30 Vdc	10...30 Vdc	10...30 Vdc	10...30 Vdc	10...30 Vdc
Max. load current	100 mA	100 mA* 200mA	100 mA	100 mA	100 mA
Short circuit protection	Yes	Yes	Yes	Yes	Yes
Current overload protection	Yes	Yes	Yes	Yes	Yes
Polarity reversal protection	Yes	Yes	Yes	Yes	Yes
Degree of protection	IP67	IP67	IP67	IP67	IP67
Temperature range	-10 to +60° C	-20 to +60° C* -10 to +60° C	-20 to +55° C	-25 to +55° C	-25 to +55° C
Approvals	CE, cULus	CE, cULus	CE, cULus	CE, cULus	CE
Connection			M12 4-pin pigtail or 2 m cable	M12 4-pin or 2 m cable	M8 4-pin or 2 m cable

Consult Balluff website for additional specifications.

*Background suppression fixed focus

Wiring Diagrams





M8 Single-Ended

Type	M8 Female	M8 Female
Configuration	Straight	Right Angle
Voltage Rating	60 VAC/VDC (3wire), 30 VAC/VDC (4wire)	60 VAC/VDC (3wire) 30 VAC/VDC (4wire)
Amperage	4 A	4 A
3-wire	5m BCC0AUM	BCC0AUP
	10m BCC0AUN	BCC0AUR
4-wire	5m BCC0AUT	BCC0AUW
	10m BCC0AUU	BCC0AUY

See page 35 for part number reference.



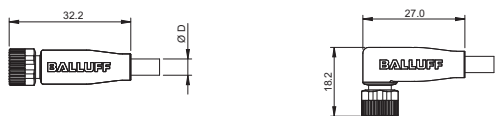
M12 Single-Ended

Type	M12 Female	M12 Female
Configuration	Straight	Right Angle
Voltage Rating	250 VAC/VDC	250 VAC/VDC
Amperage	4 A	4 A
4-wire	5m BCC0AUZ	BCC0AW1
	10m BCC0AW0	BCC0AW2

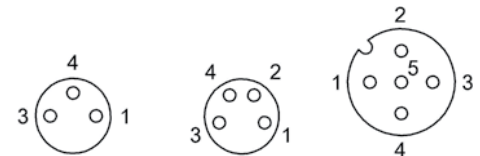
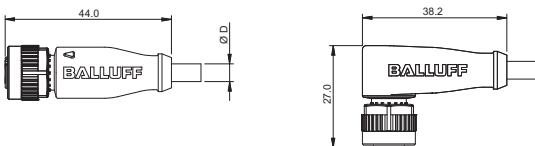
See page 35 for part number reference.

Technical data

M8 connectors – female straight and right-angle



M12 connectors – female straight and right-angle



M8 and M12 Cable Specifications

Jacket Material	PVC	
Overmold color	Black	
Cable jacket color	Yellow	
Conductor gauge	22AWG	
Temperature rating (moving)	-5...105°C	
Temperature rating (fixed)	-40...105°C	
Bending cycles	> 2 Million	
Number of conductors	3	4
Cable diameter	4.7 ± 0.15mm	5.0 ± 0.15mm

Size	M8	M8	M12
Gender	Female	Female	Female
Poles	3-wire	4-wire	4-wire
Wire Code	DC	DC	DC
1	BR	BR	BR
2		WH	WH
3	BU	BU	BU
4	BK	BK	BK

3-Wire

Non-LED	Normally Open
Wiring code	001
1	_____
2	_____
3	_____
4	_____
5	_____

4-Wire

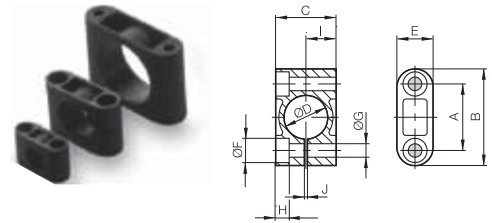
Non-LED	Normally Open/ Normally Closed
Wiring code	003
1	_____
2	_____
3	_____
4	_____
5	_____

Refer to Balluff website for latest technical information.

GlobalProx® Global.CProx™ GlobalEye™

Clamping cuff

	A	B	C	ØD	E	F	G	H	I	J
BAM00A2	17	27	16	7.9	12	8	4.5	4.5	8	1
BAM00C4	22	32	20	11.9	12	8	4.5	4.5	10	1
BAM00F2	26	36	26	17.9	12	8	4.5	4.5	13	1
BAM00HN	42	55	38	30	18	10	5.5	5.5	19	1.5

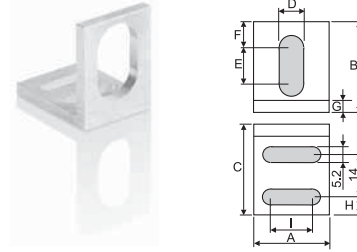


Material: PA6

See page 35 for part number reference.

Slotted angle bracket (screws and washers included)

	A	B	C	D	E	F	G	H	I
BAM009U	25	30	30	8.1	12	7	4	6	14
BAM00C0	25	30	30	12.1	9	8.5	4	6	14
BAM00EY	30	40	40	18.1	11	12	5	10	18
BAM00HH	40	60	40	30.1	18	19	5	10	30



Material: Aluminum

Note: All units are in mm

See page 35 for part number reference.

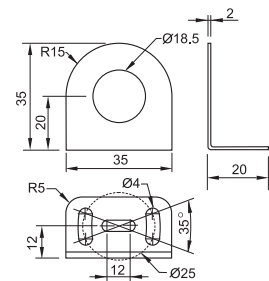
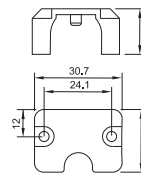
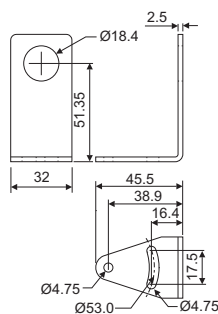
GlobalEye™



Type	Reflector Ø 84 mm	Reflector 51×62 mm	Small L bracket	Protective bracket
Mounting	one M5 screw	two M4 screws	two M3 screws	two M3 screws
Ordering code	BAM00RH	BAM00WL	BAM00U5	BAM00U6
Material	PMMA	PMMA	Stainless steel	Stainless steel
Suitable product	All	All	BOS 5K	BOS 5K
Temperature range	0...+65 °C	0...+50 °C		
Reflectivity rating	85%	100 %		



Type	Small L bracket	Mounting adapter	Small L bracket
Mounting	two M3 screws	two M3 screws	two M3 screws
Material	Stainless steel	Durethan	Aluminum
Suitable product	BOS 11K	BOS 18KF/KW	BOS 18KF/KW
Ordering code	BAM00PT	BAM00RW	BAM00RY

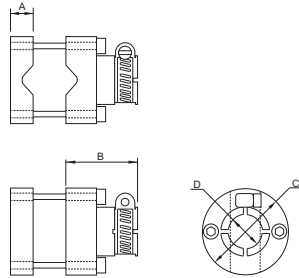




Mounting Brackets

Fits		M12	M18	M30
Dimensions (mm)	A	10.5	11.7	19.1
	B	29.5	38.1	67.8
	C	38.1	45.0	69.9
	D	12.1	18.1	30.1
Tube diameter (mm)		9.4-20.6	9.4-20.6	25.4-44.5
Ordering code		BAM015E	BAM015F	BAM015H

Material: Plastic and Stainless Steel



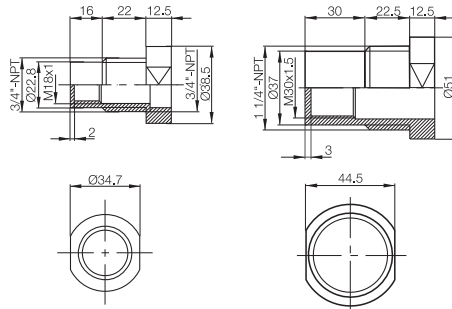
Accessories Deliver Faster Changeover Time

A common application, tank level control, is now simple with Balluff BCSA sight glass mounts. On and off levels can be easily adjusted on the external tube by moving the sensors up or down as desired. The ability to make these process changes quickly saves you money and satisfies the need for high-accuracy feedback.



Cover Nut

Fits	M18x1	M30x1.5
Ordering code	BAM00F1	BAM00H2



Protective Teflon™ switchwells are perfect for attaching capacitive sensors to containers for level detection.



Please note. The nominal switching distance of capacitive switches is reduced by 2 mm when the cover nut is installed.

115 VAC

Housing size	98.5 x 75 x 22.5 mm
Mounting	DIN rail (EN 60751)
Supply voltage U _s	115 V AC
Relay output max. current	8A
No-load supply current I ₀ max.	40 mA
Ambient temperature range T _a	-30...+70 °C
Switching frequency f	5 Hz
Degree of protection per IEC 60529	IP 20
Housing material	PC
Ordering code	BAE00A0

AC powered sensor controller with relay output and Min/Max logic

Also available in 230 VAC



Refer to Balluff website for latest technical information.

Balluff Global Line

Part number cross reference



Order Code	Part Number	Page	Order Code	Part Number	Page	Order Code	Part Number	Page
8mm								
BES000J	BES M08EB-NOC40F-S49G	7	BES00C3	BES M08EE-NOC15B-S49G-003	5	BES004U	BES M12MG-USC30B-BV03	13
BES000K	BES M08EB-NSC40F-S49G	7	BES00C4	BES M08EE-NOC20B-S04G-003	6	BES004Y	BES M12MI-NOC20B-S04G	6
BES000L	BES M08EB-POC40F-S49G	7	BES00C5	BES M08EE-NOC20B-S49G-003	6	BES004Z	BES M12MI-NOC40B-S04G	7
BES000M	BES M08EB-PSC40F-S49G	7	BES00C6	BES M08EE-NSC15B-S04G-003	5	BES0050	BES M12MI-NSC20B-BP03	6
BES000N	BES M08ED-NOC40F-BP02	7	BES00C7	BES M08EE-NSC15B-S49G-003	5	BES0054	BES M12MI-NSC20B-S04G	6
BES000P	BES M08ED-NOC40F-BV02	7	BES00C8	BES M08EE-NSC20B-S04G-003	6	BES0055	BES M12MI-NSC40B-BP03	7
BES000R	BES M08ED-NSC40F-BP02	7	BES00C9	BES M08EE-NSC20B-S49G-003	6	BES0057	BES M12MI-NSC40B-BV03	7
BES000T	BES M08ED-NSC40F-BV02	7	BES00CA	BES M08EE-POC15B-S04G-003	5	BES0059	BES M12MI-NSC40B-S04G	7
BES000U	BES M08ED-POC40F-BP02	7	BES00CC	BES M08EE-POC15B-S49G-003	5	BES005A	BES M12MI-POC20B-BP03	6
BES000W	BES M08ED-POC40F-BV02	7	BES00CE	BES M08EE-POC20B-S04G-003	6	BES005F	BES M12MI-POC20B-S04G	6
BES000Y	BES M08ED-PSC40F-BP02	7	BES00CF	BES M08EE-POC20B-S49G-003	6	BES005J	BES M12MI-POC40B-BP03	7
BES000Z	BES M08ED-PSC40F-BV02	7	BES00CH	BES M08EE-PSC15B-S04G-003	5	BES005M	BES M12MI-POC40B-BV03	7
BES0010	BES M08EG-NOC40F-BP02	7	BES00CJ	BES M08EE-PSC15B-S49G-003	5	BES005N	BES M12MI-POC40B-S04G	7
BES0011	BES M08EG-NOC40F-BV02	7	BES00CK	BES M08EE-PSC20B-S49G-003	6	BES005R	BES M12MI-PSC20B-BP03	6
BES0012	BES M08EG-NSC40F-BP02	7	BES00CL	BES M08EF-NOC15B-BP02-003	5	BES005U	BES M12MI-PSC20B-BV02	6
BES0013	BES M08EG-NSC40F-BV02	7	BES00CM	BES M08EF-NOC20B-BP02-003	5	BES0060	BES M12MI-PSC20B-S04G	6
BES0014	BES M08EG-POC40F-BP02	7	BES00CN	BES M08EF-NSC15B-BP02-003	5	BES0062	BES M12MI-PSC40B-BP03	7
BES0015	BES M08EG-POC40F-BV02	7	BES00CP	BES M08EF-NSC20B-BP02-003	5	BES0068	BES M12MI-PSC40B-S04G	7
BES0016	BES M08EG-PSC40F-BP02	7	BES00CR	BES M08EF-POC15B-BP02-003	5	BES00CY	BES M12MD-NOC20B-BP02-003	6
BES0017	BES M08EG-PSC40F-BV02	7	BES00CT	BES M08EF-POC20B-BP02-003	5	BES00CZ	BES M12MD-NOC40B-BP02-003	7
BES0018	BES M08EH-NOC40F-S04G	7	BES00CU	BES M08EF-PSC15B-BP02-003	5	BES00E0	BES M12MD-NSC20B-BP02-003	6
BES0019	BES M08EH-NOC40F-S49G	7	BES00CW	BES M08EF-PSC20B-BP02-003	5	BES00E1	BES M12MD-NSC40B-BP02-003	7
BES001A	BES M08EH-NSC40F-S04G	7	BES00FC	BES M08EE-PSC20B-S04G-003	6	BES00E2	BES M12MD-NSC40B-BP02-003	6
BES001C	BES M08EH-NSC40F-S49G	7	BES024N	BES M08ME1-GOC20B-S04G	12	BES00E3	BES M12MD-POC40B-BP02-003	7
BES001E	BES M08EH-POC40F-S04G	7	BES024P	BES M08ME1-UOC20B-S04G	12	BES00E4	BES M12MD-PSC20B-BP02-003	6
BES001F	BES M08EH-POC40F-S49G	7	BES024R	BES M08MG-GOC20B-BV02	12	BES00E5	BES M12MD-PSC40B-BP02-003	7
BES001H	BES M08EH-PSC40F-S04G	7	BES024T	BES M08MG-UOC20B-BV02	12	BES00E6	BES M12ME-NOC20B-S04G-003	6
BES001J	BES M08EH-PSC40F-S49G	7	BES03H8	BES M08MG-GOC20B-BP00,3-GS04	12	BES00E7	BES M12ME-NOC40B-S04G-003	7
BES001L	BES M08MG-GSC20B-BV02	12	BES03H9	BES M08MG-GOC20B-BP02	12	BES00E8	BES M12ME-NSC20B-S04G-003	6
BES001T	BES M08MG-USC20B-BV02	12	BES03HC	BES M08MG-GSC20B-BP02	12	BES00E9	BES M12ME-NSC40B-S04G-003	7
BES001Y	BES M08ME1-USC20B-S04G	12	BES03HE	BES M08MG-UOC20B-BP02	12	BES00EA	BES M12ME-POC20B-S04G-003	6
BES001Z	BES M08MG-GSC20B-BP00,3-GS04	12	BES03HJ	BES M08MG-USC20B-BP02	12	BES00EC	BES M12ME-POC40B-S04G-003	7
BES0022	BES M08ME1-GSC20B-S04G	12	BES03P6	BES M08MI-POC15B-S49G	5	BES00EE	BES M12ME-PSC20B-S04G-003	6
BES0023	BES M08MH1-NOC15B-S04G	5	BES03PJ	BES M08MI-NOC15B-BV02	5	BES00EF	BES M12ME-PSC40B-S04G-003	7
BES0024	BES M08MH1-NSC15B-S04G	5	BES03PK	BES M08MI-NOC15B-S49G	5	BES00FL	BES M12MI-NSC20B-BV02	6
BES0025	BES M08MH1-NSC20B-S04G	6	BES03T5	BES M08MH1-POC20B-S04G	6	BES00FP	BES M12MI-POC20B-BV02	6
BES0026	BES M08MH1-POC15B-S04G	5	BES03T6	BES M08MH1-NOC20B-S04G	6	BES01PR	BES M12MD-NOC80F-S04G	8
BES0027	BES M08MH1-PSC15B-S04G	5	BES03Tf	BES M08MI-NOC20B-BV02	5	BES01PT	BES M12MD-NSC80F-S04G	8
BES0028	BES M08MH1-PSC20B-S04G	6	BES03TH	BES M08MI-POC20B-BV02	5	BES01PU	BES M12MD-POC80F-S04G	8
BES002A	BES M08MI-NSC15B-BP03	5	BES03TJ	BES M08MI-NOC20B-S49G	6	BES01PY	BES M12MD-PSC80F-S04G	8
BES002H	BES M08MI-NSC15B-BV03	5	12mm			BES024J	BES M12MF-GOC30B-S04G	13
BES002K	BES M08MI-NSC15B-S49G	5	BES0001	BES M12MI-PSC40B-BV03	7	BES024K	BES M12MF-UOC30B-S04G	13
BES002M	BES M08MI-NSC20B-BP03	5	BES003Z	BES M12MF-GSC30B-S04G	13	BES024L	BES M12MG-GOC30B-BV02	13
BES002R	BES M08MI-NSC20B-BV03	5	BES0041	BES M12MF-USC30B-S04G	13	BES024M	BES M12MG-UOC30B-BV02	13
BES002U	BES M08MI-NSC20B-S49G	6	BES0042	BES M12MG-GSC30B-BP00,3-GS04	13	BES03HK	BES M12MG-GOC30B-BP00,3-GS04	13
BES002Y	BES M08MI-POC15B-BP03	5	BES0045	BES M12MG-GSC30B-BV02	13	BES03PR	BES M12MI-NOC20B-BV02	6
BES0031	BES M08MI-POC15B-BV03	5	BES0048	BES M12MG-NOC80F-BP02	7	BES03PT	BES M12MI-NOC40B-BV02	7
BES0033	BES M08MI-POC20B-S49G	6	BES0049	BES M12MG-NOC80F-BV02	7	18mm		
BES0035	BES M08MI-PSC15B-BP03	5	BES004A	BES M12MG-NOC80F-S04G	8	BES0069	BES M18MF-GSC70B-S04K	12
BES0038	BES M08MI-PSC15B-BV03	5	BES004E	BES M12MG-NSC80F-BV02	7	BES006A	BES M18MF-USC70B-S04K	12
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BES003E	BES M08MI-PSC20B-BP00,2-GS04	6	BES004H	BES M12MG-POC80F-BP02	7	BES006K	BES M18MG-NOC16F-BP02	8
BES003H	BES M08MI-PSC20B-BP03	5	BES004J	BES M12MG-POC80F-BV02	7	BES006L	BES M18MG-NOC16F-BV02	8
BES003L	BES M08MI-PSC20B-BV03	5	BES004K	BES M12MG-POC80F-S04G	8	BES006M	BES M18MG-NOC16F-S04K	9
BES003P	BES M08MI-PSC20B-S49G	6	BES004L	BES M12MG-PSC80F-BP02	7	BES006N	BES M18MG-NSC16F-BP02	8
BES00C2	BES M08EE-NOC15B-S04G-003	5	BES004M	BES M12MG-PSC80F-BV02	7	BES006P	BES M18MG-NSC16F-BV02	8
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BES006U	BES M18MG-POC16F-BV02	8	BES03T7	BES M18ME-NOC50B-S04G-003	9	BES03FW	BES M30MF-GSC15B-BP02	13
BES006W	BES M18MG-POC16F-S04K	9	BES03T8	BES M18MD-NOC50B-BP02-003	8	BES03FY	BES M30MF-GOC15B-BP02	13
BES006Y	BES M18MG-PSC16F-BP02	8	BES03T9	BES M18MI-NOC80B-S04K	8	BES03FZ	BES M30MF-USC15B-BP02	13
BES006Z	BES M18MG-PSC16F-BV02	8	30mm			BES03H0	BES M30MF-UOC15B-BP02	13
BES0070	BES M18MG-PSC16F-S04K	9	BES008R	BES M30MF-GSC15B-BV02	13	BES03H4	BES M30MF-GOC15B-BP00,3-GS04	13
BES0073	BES M18MG-USC70B-BV02	13	BES008W	BES M30MF-GSC15B-S04K	12	BES03RC	BES M30MM-POC30F-S04G	10
BES0076	BES M18MI-NOC50B-S04K	9	BES008Y	BES M30MF-GSC15B-BP00,3-GS04	13	BES03RE	BES M30MM-PSC30F-S04G	10
BES0077	BES M18MI-NOC80B-S04G	8	BES0091	BES M30MF-USC15B-BV02	13	BES03RF	BES M30MD-NOC15B-BP02-003	11
BES0078	BES M18MI-NSC50B-BP03	8	BES0094	BES M30MF-USC15B-S04K	12	BES03RH	BES M30MI-NSC15B-BV02	10
BES007C	BES M18MI-NSC50B-BV03	8	BES0095	BES M30MI-NOC10B-BP03	9	BES03RJ	BES M30MI-NOC15B-BV02	10
BES007F	BES M18MI-NSC50B-S04K	9	BES0096	BES M30MI-NOC10B-BV02	9	BES03RK	BES M30MI-POC15B-S04G	11
BES007H	BES M18MI-NSC80B-BP03	9	BES0097	BES M30MI-NOC10B-S04K	10	BES03TA	BES M30ME-NOC10B-S04G-003	10
BES007J	BES M18MI-NSC80B-BV03	9	BES0098	BES M30MI-NOC15B-S04K	11	BES03TC	BES M30MD-POC10B-BP02-003	9
BES007L	BES M18MI-NSC80B-S04G	8	BES0099	BES M30MI-NSC10B-BP03	9	BES03TE	BES M30MD-NOC10B-BP02-003	9
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BES007Y	BES M18MI-POC80B-S04K	8	BES009M	BES M30MI-POC10B-BV02	9			
BES0080	BES M18MI-PSC50B-BP03	8	BES009P	BES M30MI-POC10B-S04K	10			
BES0083	BES M18MI-PSC50B-BV03	8	BES009R	BES M30MI-POC15B-BP02	10			
BES0086	BES M18MI-PSC50B-S04G	9	BES009T	BES M30MI-POC15B-BV02	10			
BES0087	BES M18MI-PSC50B-S04K	9	BES009U	BES M30MI-POC15B-S04K	11			
BES0089	BES M18MI-PSC80B-BP03	9	BES009Y	BES M30MI-PSC10B-BP03	9			
BES008F	BES M18MI-PSC80B-BV03	9	BES00A0	BES M30MI-PSC10B-BV02	9			
BES008L	BES M18MI-PSC80B-S04G	8	BES00A3	BES M30MI-PSC10B-S04G	9			
BES008M	BES M18MI-PSC80B-S04K	8	BES00A4	BES M30MI-PSC10B-S04K	10			
BES00EJ	BES M18MD-NSC50B-BP02-003	8	BES00A6	BES M30MI-PSC15B-BP03	10			
BES00EK	BES M18MD-NSC80B-BP02-003	9	BES00AA	BES M30MI-PSC15B-BV02	10			
BES00EL	BES M18MD-POC50B-BP02-003	8	BES00AF	BES M30MI-PSC15B-S04G	11			
BES00EM	BES M18MD-POC80B-BP02-003	9	BES00AH	BES M30MI-PSC15B-S04K	11			
BES00EN	BES M18MD-PSC50B-BP02-003	8	BES00AJ	BES M30MM-NOC30F-BP02	10			
BES00EP	BES M18MD-PSC80B-BP02-003	9	BES00AK	BES M30MM-NOC30F-BV02	10			
BES00ER	BES M18ME-NSC50B-S04G-003	9	BES00AL	BES M30MM-NOC30F-S04K	10			
BES00ET	BES M18ME-NSC80B-S04G-003	8	BES00AM	BES M30MM-NSC30F-BP02	10			
BES00EU	BES M18ME-POC50B-S04G-003	9	BES00AN	BES M30MM-NSC30F-BV02	10			
BES00EW	BES M18ME-POC80B-S04G-003	8	BES00AP	BES M30MM-NSC30F-S04K	10			
BES00EY	BES M18ME-PSC50B-S04G-003	9	BES00AR	BES M30MM-POC30F-BP02	10			
BES00EZ	BES M18ME-PSC80B-S04G-003	8	BES00AT	BES M30MM-POC30F-BV02	10			
BES00FA	BES M18MG-GSC70B-BV02	13	BES00AU	BES M30MM-POC30F-S04K	10			
BES02NL	BES M18MF-GOC70B-S04G	12	BES00AW	BES M30MM-PSC30F-BP02	10			
BES02NM	BES M18MF-GOC70B-S04K	12	BES00AY	BES M30MM-PSC30F-BV02	10			
BES02NN	BES M18MF-UOC70B-S04G	12	BES00AZ	BES M30MM-PSC30F-S04K	10			
BES02NP	BES M18MF-UOC70B-S04K	12	BES00F0	BES M30MD-NSC10B-BP02-003	9			
BES02NR	BES M18MF-USC70B-S04G	12	BES00F1	BES M30MD-NSC15B-BP02-003	11			
BES02NT	BES M18MG-GOC70B-BV02	13	BES00F2	BES M30MD-POC15B-BP02-003	11			
BES02NU	BES M18MG-UOC70B-BV02	13	BES00F3	BES M30MD-PSC10B-BP02-003	9			
BES0328	BES M18MF-GSC70B-S04G	12	BES00F4	BES M30MD-PSC15B-BP02-003	11			
BES039L	BES M18MG-GOC70B-BP00,3-GS04	13	BES00F5	BES M30ME-NSC10B-S04G-003	10			
BES03PM	BES M18MI-POC80B-BP05	9	BES00F6	BES M30ME-POC10B-S04G-003	10			
BES03PY	BES M18MI-POC80B-BV02	9	BES00F7	BES M30ME-POC15B-S04G-003	10			
BES03RL	BES M18MG-POC16F-S04G	9	BES00F8	BES M30ME-PSC10B-S04G-003	10			
BES03RM	BES M18MG-PSC16F-S04G	9	BES00F9	BES M30ME-PSC15B-S04G-003	10			
BES03RN	BES M18ME-NOC80B-S04G-003	8	BES0279	BES M30MF-GOC15B-BV02	13			
BES03RP	BES M18MI-POC80B-S04G	8	BES027A	BES M30MF-UOC15B-BV02	13			
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BOS011F	BOS 5K-NS-RH12-S75	19
BOS011Y	BOS 5K-PO-RH12-02	19
BOS011Z	BOS 5K-PO-RH12-S75	19
BOS0129	BOS 5K-PS-RH12-02	19
BOS012A	BOS 5K-PS-RH12-S75	19
BOS014P	BOS 11K-PA-RH10-02	19
BOS014R	BOS 11K-PA-RH10-00.15-S4	19
BOS014T	BOS 11K-NA-RH10-02	19
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Sensing, Networking, and Identification for Industrial Automation



Object Detection

Inductive sensors, cylinder sensors, magnetic field sensors, capacitive sensors, ultrasonic sensors, photoelectric sensors, fiber optic devices, fiber optics, angle sensors, through-beam fork sensors, optical window sensors, light grids, contrast sensors, luminescence sensors, color sensors, mechanical and inductive single and multiple position switches



Linear Position and Measurement

Micropulse® transducers, magnetic linear encoder system, inductive displacement system, inductive distance sensors, magnetoinductive distance sensors, capacitive distance sensors, photoelectric distance sensors, ultrasonic sensors



Fluid Detection

Pressure sensors, capacitive sensors for level detection



Industrial Identification

Industrial RFID systems, vision sensors



Networking and Connectivity

Connectors and connection cables, valve connectors, passive splitter boxes, active splitter boxes, IO-Link, bus systems (Profibus, Profinet, CC-Link, DeviceNet, EtherNet), inductive couplers, power supplies, electrical devices



Accessories

Brackets and mountings, assembly system BMS

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