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BALLUFF

sensors worldwide

GlobalProx

The GlobalProx range increases in popularity

12× PNP Normally-open
12× PNP Normally-closed
12× NPN Normally-open
12× NPN Normally-closed

12× Flush
12× Non-flush



12× Metal
12× Plastic



12× Cable
12× Connector



8× M12
8× M18
8× M30





96 Variants

GlobalProx

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Capacitive Sensors

The GlobalProx range increases in popularity

more added value

The new capacitive BCS range is a worldwide standard with an outstanding price/performance ratio that enjoys global availability and can be used anywhere in the world.

- M12, M18 and M30 designs
- Flush models for object detection
- Non-flush models for level detection
- Cable and M12 plug variants
- Stainless steel and plastic variants available

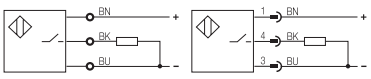
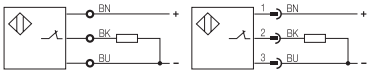
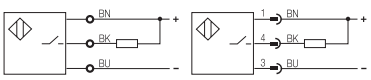
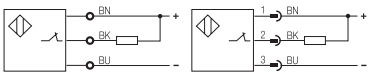


Capacitive object detection made easy with the new GlobalProx series



Capacitive level detection made easy with the new GlobalProx series

Operating voltage U_O	10…30 V DC
Voltage drop U_d at I_e	≤ 1.5 V
Rated insulation voltage U_i (protection class)	75 V DC
Output current max.	100 mA
No-load supply current I_0 max.	≤ 15 mA
Reverse polarity/short-circuit protected	Yes/Yes
Temperature drift of s_n (–5°...+55°C)	20 %
Ambient temperature range T_a	–25…+85 °C
Switching frequency f	100 Hz
Power indicator	Green LED
Output function indicator	Yellow LED
Degree of protection as per IEC 60529	IP 67

		Cable	Connector
PNP (+) sourcing	Normally open		
	Normally closed		
NPN (–) sinking	Normally open		
	Normally closed		

N.O. contact: the switching output of the sensor is not switched through in its de-activated state.



N.C. contact: the switching output of the sensor is switched through in its de-activated state.

GlobalProx

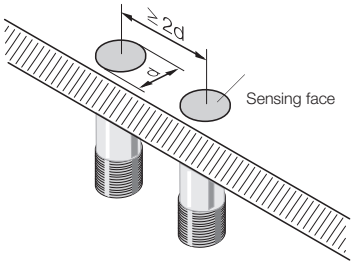
Capacitive Sensors
Object detection

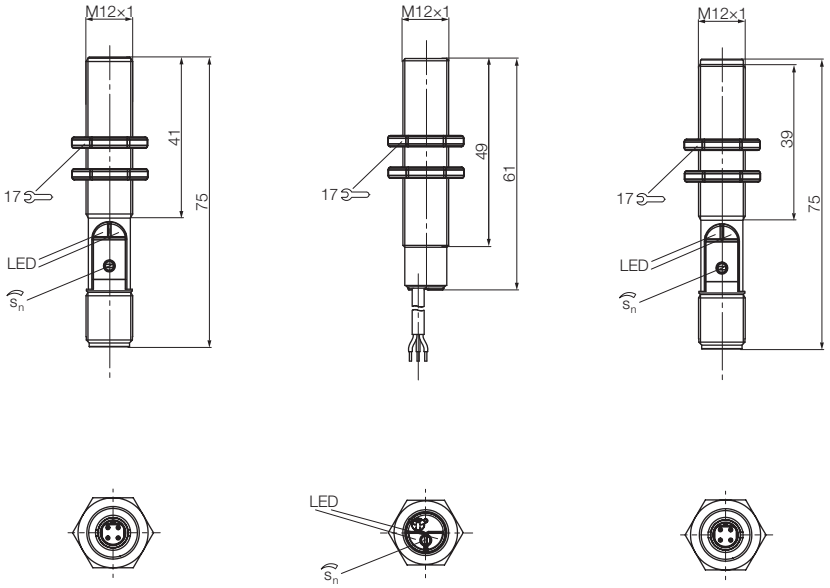


Size			**M12×1**	**M12×1**	**M12×1**
Mounting			Flush	Flush	Flush
Rated switching distance s_n			**1…4 mm**	**1…4 mm**	**1…4 mm**
PNP	NO	**Ordering code**	**BCS00P0**	**BCS00K9**	**BCS00PJ**
		Part number	BCS M12B4G2-PSC04D-S04K	BCS M12B4I1-PSC04D-EP02	BCS M12BBG2-PSC04D-S04K
PNP	NC	**Ordering code**	**BCS00P1**	**BCS00P8**	**BCS00PK**
		Part number	BCS M12B4G2-POC04D-S04K	BCS M12B4I1-POC04D-EP02	BCS M12BBG2-POC04D-S04K
NPN	NO	**Ordering code**	**BCS00P2**	**BCS00P9**	**BCS00PL**
		Part number	BCS M12B4G2-NSC04D-S04K	BCS M12B4I1-NSC04D-EP02	BCS M12BBG2-NSC04D-S04K
NPN	NC	**Ordering code**	**BCS00P3**	**BCS00PA**	**BCS00PM**
		Part number	BCS M12B4G2-NOC04D-S04K	BCS M12B4I1-NOC04D-EP02	BCS M12BBG2-NOC04D-S04K
Material		Housing	V2A	V2A	PBT
		Sensing face	PBT	PBT	PBT
		Cover	PA 12/PBT	PA 12	PA 12/PBT
Connection			M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded

Flush-mount (shielded) proximity switches

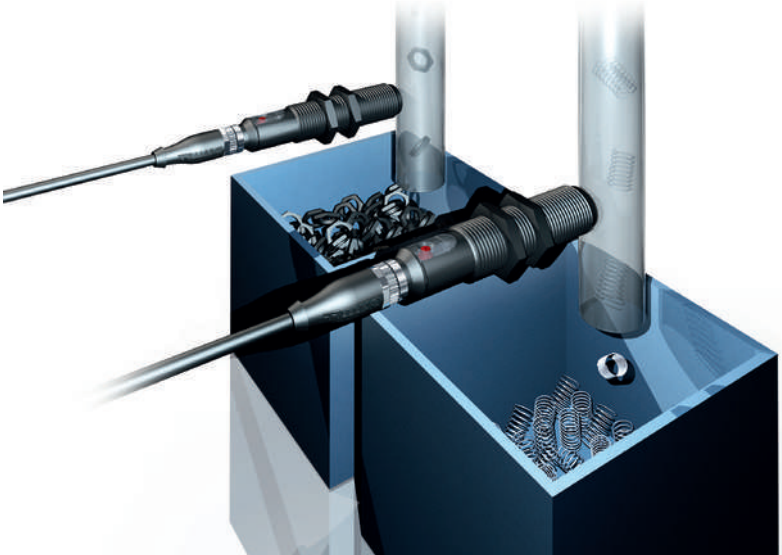
... can be installed with their sensing faces flush to the metal. The distance between two proximity switches (in row mounting) must be ≥ 2d.





- Further enhanced EMC protection
- All sensors available in plastic or V2A housing
- M12 plug and cable variants
- Easily accessible potentiometer for adaptation to the application
- Flush, also in completely plastic housing

The new capacitive sensors for object detection combine versatility with maximum EMC protection. The complete series incorporates M12, M18 and M30 variants in a plastic and stainless steel housing. All devices are easily adapted to the relevant application using a potentiometer. The flush switching characteristics enable large switching distances, even when detecting plastic components.



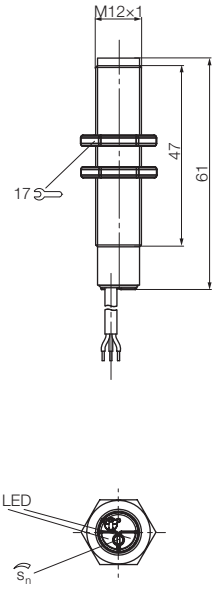
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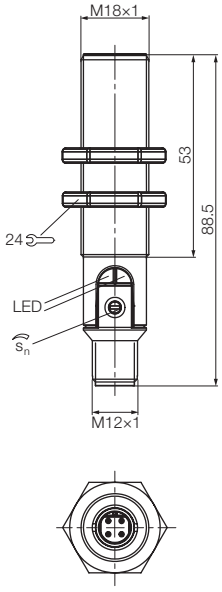


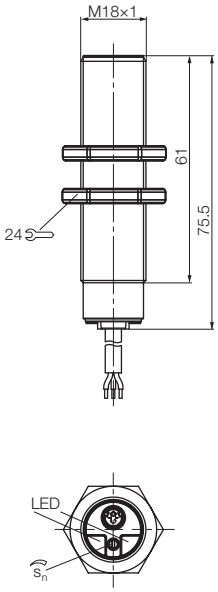


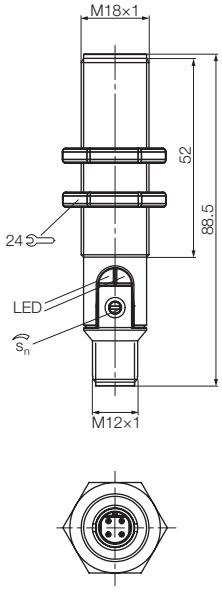


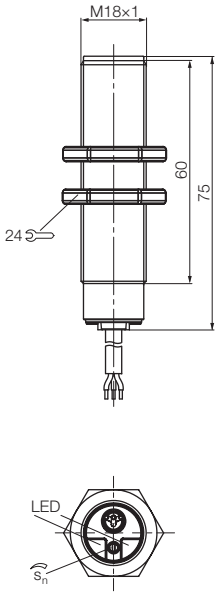
M12×1	**M18×1**	**M18×1**	**M18×1**	**M18×1**
Flush	Flush	Flush	Flush	Flush
1…4 mm	**2…8 mm**	**2…8 mm**	**2…8 mm**	**2…8 mm**
BCS00PU	**BCS00MF**	**BCS00LK**	**BCS00M8**	**BCS00NZ**
BCS M12BBI1-PSC04D-EP02	BCS M18B4I3-PSC80D-S04K	BCS M18B4N1-PSC80D-EP02	BCS M18BBI3-PSC80D-S04K	BCS M18BBN1-PSC80D-EP02
BCS00PW	**BCS00M4**	**BCS00LR**	**BCS00MH**	**BCS00M1**
BCS M12BBI1-POC04D-EP02	BCS M18B4I3-POC80D-S04K	BCS M18B4N1-POC80D-EP02	BCS M18BBI3-POC80D-S04K	BCS M18BBN1-POC80D-EP02
BCS00PY	**BCS00M5**	**BCS00LN**	**BCS00MJ**	**BCS00M2**
BCS M12BBI1-NSC04D-EP02	BCS M18B4I3-NSC80D-S04K	BCS M18B4N1-NSC80D-EP02	BCS M18BBI3-NSC80D-S04K	BCS M18BBN1-NSC80D-EP02
BCS00PZ	**BCS00M6**	**BCS00LP**	**BCS00MK**	**BCS00M3**
BCS M12BBI1-NOC04D-EP02	BCS M18B4I3-NOC80D-S04K	BCS M18B4N1-NOC80D-EP02	BCS M18BBI3-NOC80D-S04K	BCS M18BBN1-NOC80D-EP02
PBT	V2A	V2A	PBT	PBT
PBT	PBT	PBT	PBT	PBT
PA 12	PA 12/PBT	PA 12	PA 12/PBT	PA 12
2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²











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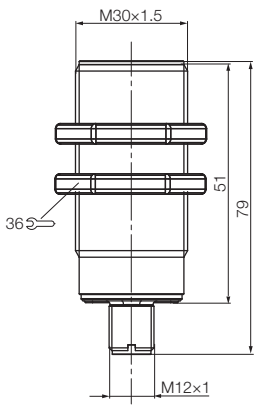


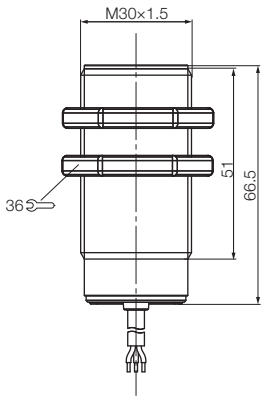


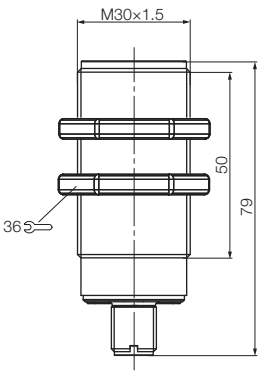


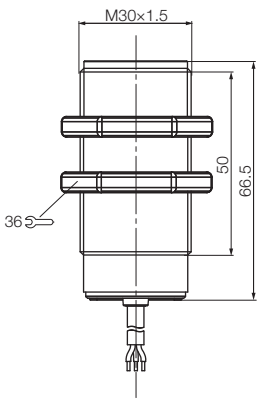


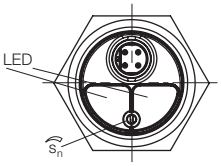
M30×1.5	**M30×1.5**	**M30×1.5**	**M30×1.5**
Flush	Flush	Flush	Flush
2…15 mm	**2…15 mm**	**2…15 mm**	**2…15 mm**
BCS00MR	**BCS00N2**	**BCS00NA**	**BCS00NM**
BCS M30B4I2-PSC15D-S04K	BCS M30B4I1-PSC15D-EP02	BCS M30BBI2-PSC15D-S04K	BCS M30BBI1-PSC15D-EP02
BCS00MT	**BCS00N3**	**BCS00NC**	**BCS00NN**
BCS M30B4I2-POC15D-S04K	BCS M30B4I1-POC15D-EP02	BCS M30BBI2-POC15D-S04K	BCS M30BBI1-POC15D-EP02
BCS00MU	**BCS00N4**	**BCS00NE**	**BCS00NP**
BCS M30B4I2-NSC15D-S04K	BCS M30B4I1-NSC15D-EP02	BCS M30BBI2-NSC15D-S04K	BCS M30BBI1-NSC15D-EP02
BCS00MW	**BCS00N5**	**BCS00NF**	**BCS00NR**
BCS M30B4I2-NOC15D-S04K	BCS M30B4I1-NOC15D-EP02	BCS M30BBI2-NOC15D-S04K	BCS M30BBI1-NOC15D-EP02
V2A	V2A	PBT	PBT
PBT	PBT	PBT	PBT
PA 12/PBT	PA 12/PBT	PA 12/PBT	PA 12/PBT
M12 connector,	2 m cable PUR,	M12 connector,	2 m cable PUR,
4-pin, A-coded	3×0.34 mm²	4-pin, A-coded	3×0.34 mm²

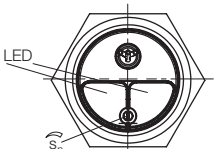


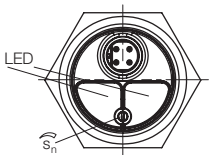


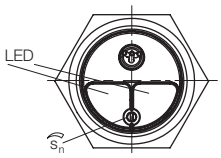


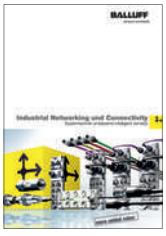














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Prox

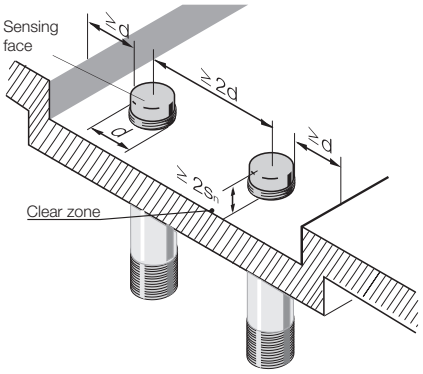
Capacitive Sensors
Level detection

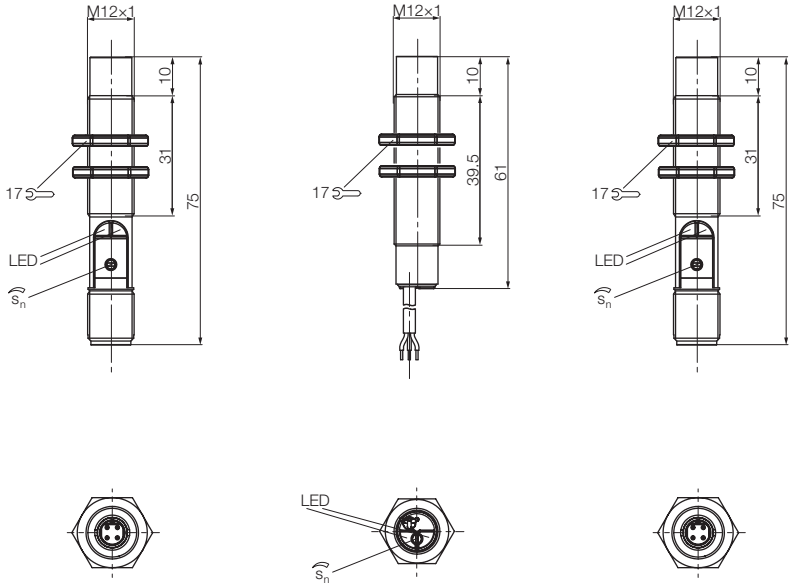


Size			**M12×1**	**M12×1**	**M12×1**
Mounting			Non-flush	Non-flush	Non-flush
Rated switching distance s_n			**1…8 mm**	**1…8 mm**	**1…8 mm**
PNP	NO	**Ordering code**	**BCS00P4**	**BCS00PC**	**BCS00PN**
		Part number	BCS M12B4E2-PSC80H-S04K	BCS M12B4G1-PSC80H-EP02	BCS M12BBE2-PSC80H-S04K
PNP	NC	**Ordering code**	**BCS00P5**	**BCS00PE**	**BCS00PP**
		Part number	BCS M12B4E2-POC80H-S04K	BCS M12B4G1-POC80H-EP02	BCS M12BBE2-POC80H-S04K
NPN	NO	**Ordering code**	**BCS00P6**	**BCS00PF**	**BCS00PR**
		Part number	BCS M12B4E2-NSC80H-S04K	BCS M12B4G1-NSC80H-EP02	BCS M12BBE2-NSC80H-S04K
NPN	NC	**Ordering code**	**BCS00P7**	**BCS00PH**	**BCS00PT**
		Part number	BCS M12B4E2-NOC80H-S04K	BCS M12B4G1-NOC80H-EP02	BCS M12BBE2-NOC80H-S04K
Material		Housing	V2A	V2A	PBT
		Sensing face	PBT	PBT	PBT
		Cover	PA 12/PBT	PA 12	PA 12/PBT
Connection			M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded

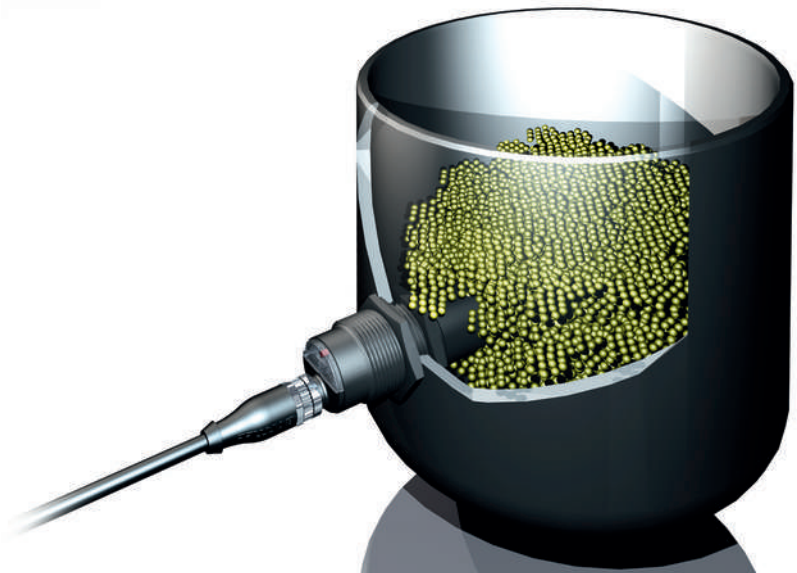
Unshielded proximity switches

The sensing face must extend ≥ $2s_n$ from the metallic installation medium. The distance between two proximity switches must be ≥ 2d.





- Further enhanced EMC protection
- All sensors available in plastic or V2A housing
- M12 plug and cable variants
- Easily accessible potentiometer for perfect adaptation to the application
- Improved adhesion compensation

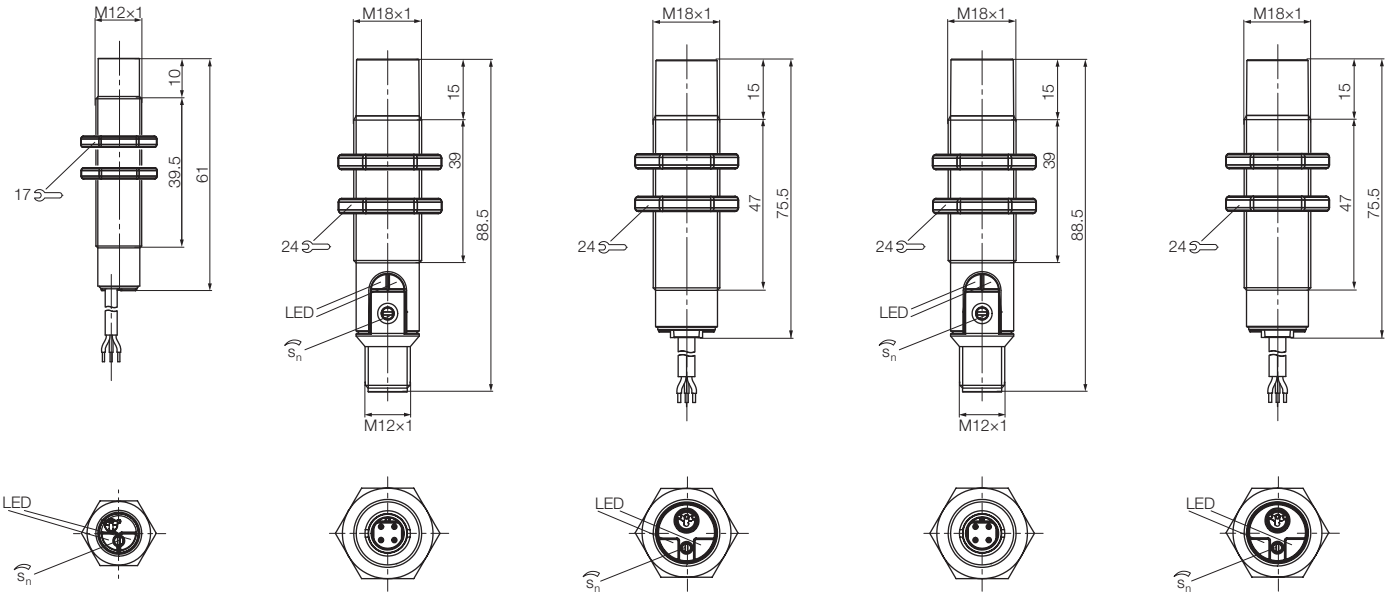




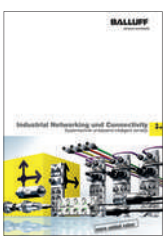




M12×1	**M18×1**	**M18×1**	**M18×1**	**M18×1**
Non-flush	Non-flush	Non-flush	Non-flush	Non-flush
1…8 mm	**2..15 mm**	**2..15 mm**	**2..15 mm**	**2..15 mm**
BCS00R0	**BCS00ME**	**BCS00M7**	**BCS00LM**	**BCS00LL**
BCS M12BBG1-PSC80H-EP02	BCS M18B4G2-PSC15H-S04K	BCS M18B4H1-PSC15H-EP02	BCS M18BBG2-PSC15H-S04K	BCS M18BBH1-PSC15H-EP02
BCS00R1	**BCS00ML**	**BCS00M9**	**BCS00LT**	**BCS00LY**
BCS M12BBG1-POC80H-EP02	BCS M18B4G2-POC15H-S04K	BCS M18B4H1-POC15H-EP02	BCS M18BBG2-POC15H-S04K	BCS M18BBH1-POC15H-EP02
BCS00R2	**BCS00MM**	**BCS00MA**	**BCS00LU**	**BCS00LZ**
BCS M12BBG1-NSC80H-EP02	BCS M18B4G2-NSC15H-S04K	BCS M18B4H1-NSC15H-EP02	BCS M18BBG2-NSC15H-S04K	BCS M18BBH1-NSC15H-EP02
BCS00R3	**BCS00MN**	**BCS00MC**	**BCS00LW**	**BCS00M0**
BCS M12BBG1-NOC80H-EP02	BCS M18B4G2-NOC15H-S04K	BCS M18B4H1-NOC15H-EP02	BCS M18BBG2-NOC15H-S04K	BCS M18BBH1-NOC15H-EP02
PBT	V2A	V2A	PBT	PBT
PBT	PBT	PBT	PBT	PBT
PA 12	PA 12/PBT	PA 12	PA 12/PBT	PA 12
2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²



The new capacitive sensors for level detection combine versatility with maximum EMC protection. The complete series incorporates M12, M18 and M30 variants in a plastic and stainless steel housing. All devices are easily adapted to the relevant application using a potentiometer. Non-flush switching characteristics ensure more effective compensation for adhesions that come into contact with the material.





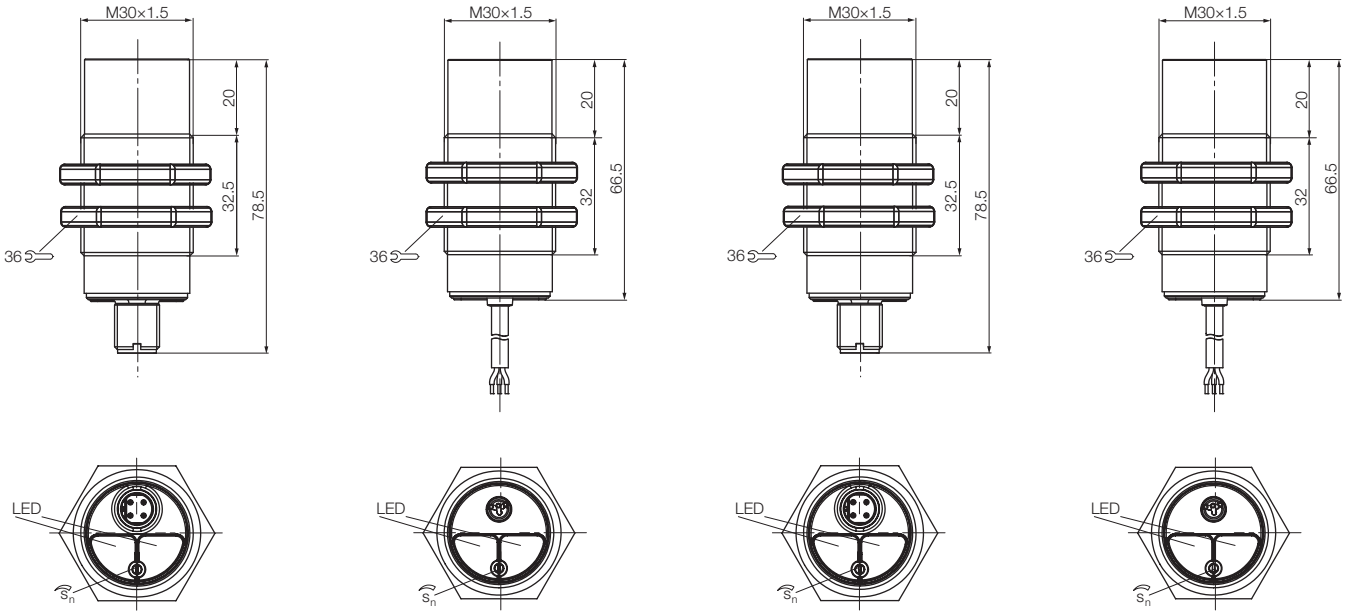
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GlobalProx






M30×1.5	**M30×1.5**	**M30×1.5**	**M30×1.5**
Non-flush	Non-flush	Non-flush	Non-flush
1…25 mm	**1…25 mm**	**1…25 mm**	**1…25 mm**
BCS00MY	**BCS00N6**	**BCS00NH**	**BCS00NT**
BCS M30B4E2-PSC25H-S04K	BCS M30B4E1-PSC25H-EP02	BCS M30BBE2-PSC25H-S04K	BCS M30BBE1-PSC25H-EP02
BCS00MZ	**BCS00N7**	**BCS00NJ**	**BCS00NU**
BCS M30B4E2-POC25H-S04K	BCS M30B4E1-POC25H-EP02	BCS M30BBE2-POC25H-S04K	BCS M30BBE1-POC25H-EP02
BCS00N0	**BCS00N8**	**BCS00NK**	**BCS00NW**
BCS M30B4E2-NSC25H-S04K	BCS M30B4E1-NSC25H-EP02	BCS M30BBE2-NSC25H-S04K	BCS M30BBE1-NSC25H-EP02
BCS00N1	**BCS00N9**	**BCS00NL**	**BCS00NY**
BCS M30B4E2-NOC25H-S04K	BCS M30B4E1-NOC25H-EP02	BCS M30BBE2-NOC25H-S04K	BCS M30BBE1-NOC25H-EP02
V2A	V2A	PBT	PBT
PBT	PBT	PBT	PBT
PA 12/PBT	PA 12/PBT	PA 12/PBT	PA 12/PBT
M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²	M12 connector, 4-pin, A-coded	2 m cable PUR, 3×0.34 mm²



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