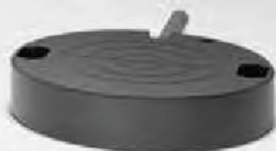


Object and level detection with patented technology

# CAPACITIVE SENSORS



Balluff's capacitive sensors detect fluids, granulates and powders in direct contact or through a non-metallic container wall. As stick-on sensors, they fit flexibly to the housing shape and are easily removable. Moisture, foam and deposits of any kind are compensated for, even through glass and plastic walls up to 10 mm thick. This makes them ideal as level detection sensors for conductive media while guaranteeing high application security.

Our capacitive sensors are available in various form factors, even especially small ones.

#### The most important benefits

- Contact-free and therefore wear-free
- Bounceless output signal
- Foam and residue compensation



PNP normally open	<b>BCS001L</b> BCS G06T4E1-PSM15C-EP02	<b>BCS001R</b> BCS G06T4D2-PSM15C-S49G	
Dimension	Ø 6.5 x 42 mm	Ø 6.5 x 54 mm	
Series	G06	G06	
Thread (A)	—	—	
Installation	for flush mounting	for flush mounting	
Connection	Cable, 2.00 m, PUR	Connector, M8x1-Male, 3-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	0.1...1.5 mm	0.1...1.5 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Housing material	Stainless steel (1.4301)	Stainless steel (1.4301)	
Material sensing surface	PTFE	PTFE	
Ambient temperature	-10...70 °C	-10...70 °C	
Operating voltage $U_b$	11...30 VDC	11...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP65	IP65	
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<b>BCS0026</b> BCS M08T4E1-PSM15C-EP02	<b>BCS002A</b> BCS M08T4E2-PSM15C-S49G	<b>BCS002T</b> BCS G10T4H-PSM40C-EP02	<b>BCS00PU</b> BCS M12BB11-PSC40D-EP02
Ø 8 x 42 mm	Ø 8 x 54 mm	Ø 10 x 50 mm	Ø 12 x 61 mm
M08	M08	G10	M12
M8x1	M8x1	—	M12x1
for flush mounting	for flush mounting	for flush mounting	for flush mounting
Cable, 2.00 m, PUR	Connector, M8x1-Male, 3-pin	Cable, 2.00 m, PUR	Cable, 2.00 m, PUR
100 Hz	100 Hz	100 Hz	100 Hz
—	—	—	—
0.1...1.5 mm	0.1...1.5 mm	1...4 mm	1...4 mm
Switching distance adjustable	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable
Stainless steel (1.4301)	Stainless steel (1.4301)	Stainless steel (1.4301)	PBT
PTFE	PTFE	PTFE	PBT
-10...70 °C	-10...70 °C	-30...70 °C	-25...85 °C
11...30 VDC	11...30 VDC	12...35 VDC	10...30 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP65	IP65	IP65	IP67
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	<b>BCS00PJ</b> BCS M12BBG2-PSC40D-S04K	<b>BCS00AU</b> BCS M12TTG1-PSM40C-ET02	
PNP normally open			
PNP/NPN normally open/normally closed			
Dimension	Ø 12 x 75 mm	Ø 12 x 50 mm	
Series	M12	M12	
Thread (A)	M12x1	M12x1	
Installation	for flush mounting	for flush mounting	
Connection	Connector, M12x1-Male, 4-pin	Cable, 2.00 m, PUR	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1...4 mm	4 mm	
Sensitivity	Switching distance adjustable	—	
Housing material	PBT	PTFE	
Material sensing surface	PBT	PTFE	
Ambient temperature	-25...85 °C	-30...60 °C	
Operating voltage U <sub>b</sub>	10...30 VDC	12...35 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP67	IP65	
Productview	Page 297	Page 297	



<b>BCS00R4</b> BCS M12B4I1-PSC40D-EP02	<b>BCS00P0</b> BCS M12B4G2-PSC40D-S04K		
		<b>BCS017H</b> BCS M12K4G1-GSM50C-EP02	<b>BCS017K</b> BCS M12K4D2-GSM50C-S04G
Ø 12 x 61 mm	Ø 12 x 75 mm	Ø 12 x 50 mm	Ø 12 x 60 mm
M12	M12	M12	M12
M12x1	M12x1	M12x1	M12x1
for flush mounting	for flush mounting	for flush mounting	for flush mounting
Cable, 2.00 m, PUR	Connector, M12x1-Male, 3-pin	Cable, 2 m, PUR	Connector, M12x1-Male, 4-pin
100 Hz	100 Hz	100 Hz	100 Hz
—	—	—	—
1...4 mm	1...4 mm	0.5...5 mm	0.5...5 mm
Switching distance adjustable	Switching distance adjustable	Switching distance teachable	Switching distance teachable
Stainless steel (1.4305)	Stainless steel (1.4305)	Stainless steel (1.4404)	Stainless steel (1.4404)
PBT	PBT	PEEK	PEEK
-25...85 °C	-25...85 °C	-10...80 °C	-10...80 °C
10...30 VDC	10...30 VDC	12...30 VDC	12...30 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP67	IP67	IP67	IP67
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Do you need more details? Our Product Finder at [www.balluff.com](http://www.balluff.com) provides you with product-specific information, including technical drawings, data sheets, user guides and more for each individual product. All items are available for download.

Sensors

RFID

Machine Vision and  
Optical Identification

Human Machine  
Interfaces

Safety

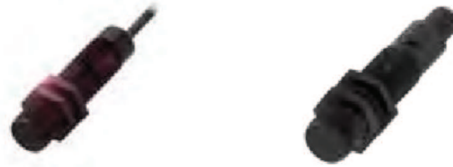
Industrial Networking

Software and  
System Solutions

Power Supply

Connectivity

Accessories



PNP normally open	<b>BCS00NZ</b> BCS M18BBN1-PSC80D-EP02	<b>BCS00M8</b> BCS M18BBI3-PSC80D-S04K	
NPN normally open	<b>BCS00M2</b> BCS M18BBN1-NSC80D-EP02		
NPN normally closed			
Dimension	Ø 18 x 75 mm	Ø 18 x 88.5 mm	
Series	M18	M18	
Thread (A)	M18x1	M18x1	
Installation	for flush mounting	for flush mounting	
Connection	Cable, 2.00 m, PUR	Connector, M12x1-Male, 3-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1...8 mm	1...8 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Housing material	PBT	PBT	
Material sensing surface	PBT	PBT	
Ambient temperature	-25...85 °C	-25...85 °C	
Operating voltage U <sub>b</sub>	10...30 VDC	10...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP67	IP67	
Productview	Page 297	Page 297	



	<b>BCS00MF</b> BCS M18B4I3-PSC80D-S04K	<b>BCS003A</b> BCS D30T401-PSC15C-EP02	<b>BCS00NM</b> BCS M30BBI1-PSC15D-EP02	<b>BCS00NA</b> BCS M30BBI2-PSC15D-S04K
		<b>BCS003F</b> BCS D30T401-NOC15C-EP02		
	Ø 18 x 88.5 mm	Ø 30 x 4 mm	Ø 30 x 65.5 mm	Ø 30 x 79 mm
	M18	D30	M30	M30
	M18x1	—	M30x1.5	M30x1.5
	for flush mounting	for flush mounting	for flush mounting	for flush mounting
	Connector, M12x1-Male, 3-pin	Cable, 2.00 m, PUR	Cable, 2.00 m, PUR	Connector, M12x1-Male, 3-pin
	100 Hz	100 Hz	100 Hz	100 Hz
	—	—	—	—
	1...8 mm	2...15 mm	2...15 mm	2...15 mm
	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable
	Stainless steel (1.4305)	Stainless steel (1.4301)	PBT	PBT
	PBT	PTFE	PBT	PBT
	-25...85 °C	-30...70 °C	-25...85 °C	-25...85 °C
	10...30 VDC	10...35 VDC	10...30 VDC	10...30 VDC
	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
	IP67	IP67	IP67	IP67
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PNP normally open			
PNP normally open/normally closed programmable	<b>BCS004K</b> BCS M30BBM3-PPC20C-EP02	<b>BCS004M</b> BCS M30BBM2-PPM20C-S04G	
PNP/NPN normally open/normally closed programmable			
Dimension	Ø 30 x 82 mm	Ø 30 x 87 mm	
Series	M30	M30	
Thread (A)	M30x1.5	M30x1.5	
Installation	for flush mounting	for flush mounting	
Connection	Cable, 2.00 m, PUR	Connector, M12x1-Male, 4-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1...20 mm	1...20 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Housing material	PBT	PBT	
Material sensing surface	PBT	PBT	
Ambient temperature	-30...70 °C	-30...70 °C	
Operating voltage U <sub>b</sub>	10...35 VDC	10...35 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP66	IP66	
Productview	Page 298	Page 298	





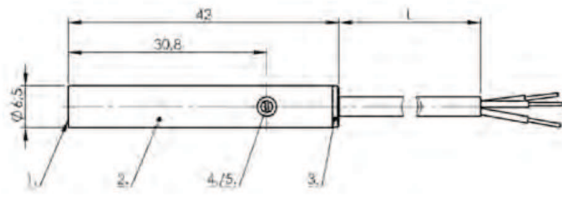
<b>BCS00MR</b> BCS M30B4I2-PSC15D-S04K		<b>BCS00UJ</b> BCS G3400I2-PSC15D-S04K	
	<b>BCS004T</b> BCS M30B4M2-PPM20C-S04G		
			<b>BCS003K</b> BCS D500002-YPC25C-EV02
Ø 30 x 79 mm	Ø 30 x 87 mm	Ø 34 x 77 mm	Ø 50 x 10 mm
M30	M30	G34	D50
M30x1.5	M30x1.5	—	—
for flush mounting	for flush mounting	for flush mounting	for flush mounting
Connector, M12x1-Male, 3-pin	Connector, M12x1-Male, 4-pin	Connector, M12x1-Male, 4-pin	Cable, 2.00 m, PVC
100 Hz	100 Hz	100 Hz	50 Hz
—	—	—	—
2...15 mm	1...20 mm	2...15 mm	2...25 mm
Switching distance adjustable	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable
Stainless steel (1.4305) PBT	Stainless steel (1.4301)	POM	POM
PBT	PBT	POM	POM
-25...85 °C	-30...70 °C	-5...85 °C	-30...60 °C
10...30 VDC	10...35 VDC	10...30 VDC	10...30 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP67	IP66	IP67	IP67
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PNP normally open	<b>BCS012N</b> BCS R08RRE-PIM80C-EP00,3-GS04	<b>BCS012T</b> BCS R08RRE-PSM80C-EP00,3-GS75	
PNP normally closed		<b>BCS012U</b> BCS R08RRE-POM80C-EP00,3-GS75	
PNP/NPN normally open/normally closed programmable			
Dimension	34 x 16 x 8 mm	34 x 16 x 8 mm	
Series	R08	R08	
Thread (A)	—	—	
Installation	for flush mounting	for flush mounting	
Connection	Cable with connector, M12x1-Male, 4-pin, 0.30 m, PUR	Cable with connector, 4-pin, 0.30 m, PUR	
Switching frequency	50 Hz	50 Hz	
Interface	IO-Link 1.1	—	
Range	1...8 mm	1...8 mm	
Sensitivity	Switching distance adjustable	Switching distance teachable	
Housing material	PP	PP	
Material sensing surface	PP	PP	
Ambient temperature	-25...70 °C	-25...70 °C	
Operating voltage $U_b$	18...30 VDC	12...30 VDC	
Approval/Conformity	cULus, CE, IO-Link, WEEE, EAC	cULus, CE, WEEE, EAC	
IP rating	IP67	IP67	
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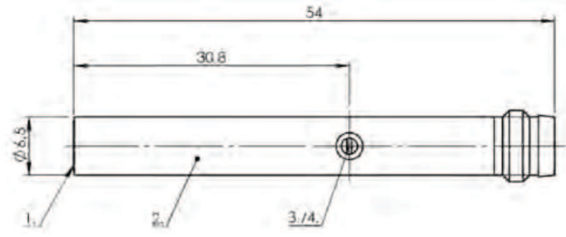


	<b>BCS012A</b> BCS R08RRE-PSM80C-EP02	<b>BCS00U6</b> BCS Q40BBAA-PSC20C-EP00,3-GS49		
	<b>BCS012C</b> BCS R08RRE-POM80C-EP02	<b>BCS00U5</b> BCS Q40BBAA-POC20C-EP00,3-GS49		
			<b>BCS00TR</b> BCS Q40BBAA-GPC20C-EP02	
	34 x 16 x 8 mm	40 x 40 x 10 mm	40 x 40 x 10 mm	
	R08	Q40	Q40	
	—	—	—	
	for flush mounting	for flush mounting	for flush mounting	
	Cable, 2.00 m, PUR	Cable with connector, M8x1-Male, 3-pin, 0.30 m, PUR	Cable, 2.00 m, PUR	
	50 Hz	100 Hz	100 Hz	
	—	—	—	
	1...8 mm	1...20 mm	1...20 mm	
	Switching distance teachable	Switching distance adjustable	Switching distance adjustable	
	PP	PBT	PBT	
	PP	PBT	PBT	
	-25...70 °C	-5...85 °C	-5...85 °C	
	12...30 VDC	10...30 VDC	10...30 VDC	
	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
	IP67	IP67	IP67	
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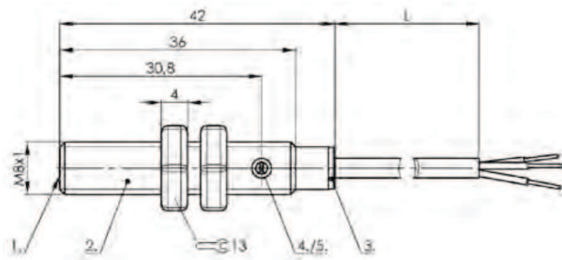
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS001L**



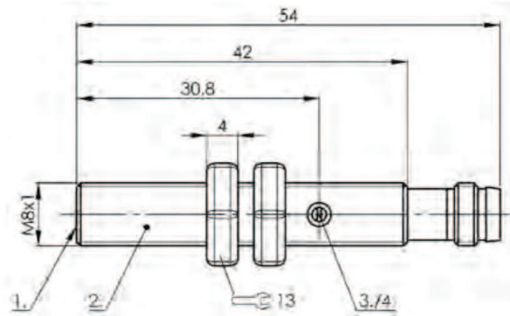
1) Sensing surface, 2) Housing, 3) Potentiometer, 4) LED function indicator

**BCS001R**



1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS0026**



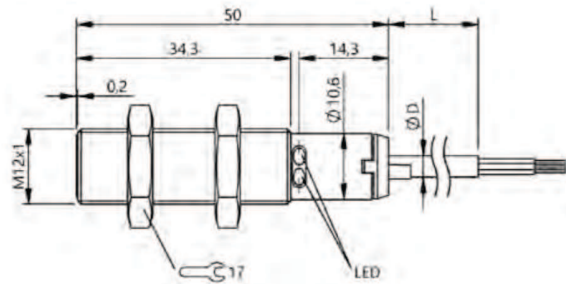
1) Sensing surface, 2) Housing, 3) Potentiometer, 4) LED function indicator

**BCS002A**

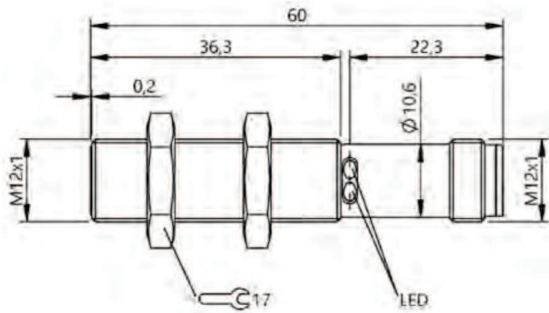


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

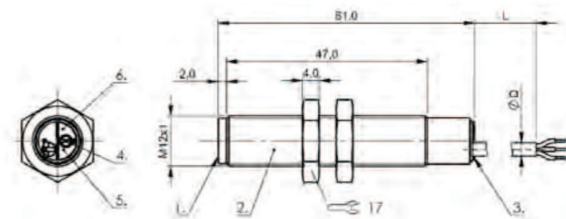
**BCS002T**



**BCS017H**

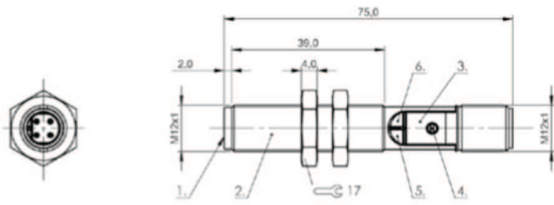


**BCS017K**



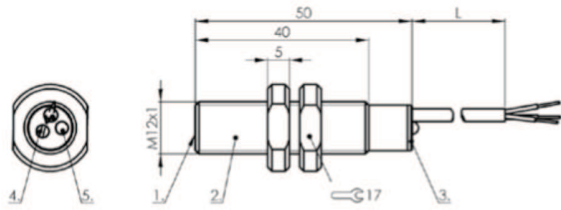
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00PU**



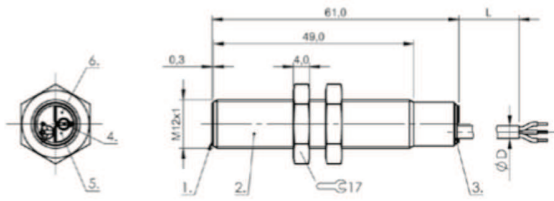
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00PJ**



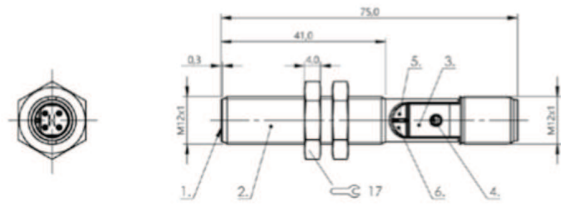
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS00AU**



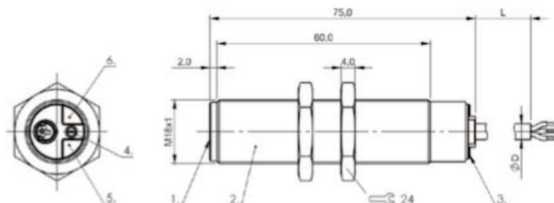
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00R4**



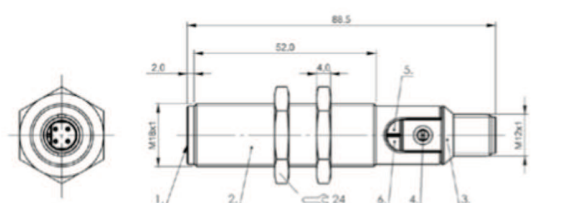
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00P0**



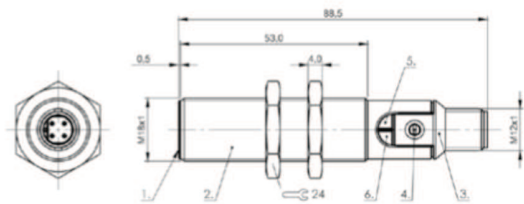
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00M2, BCS00NZ**



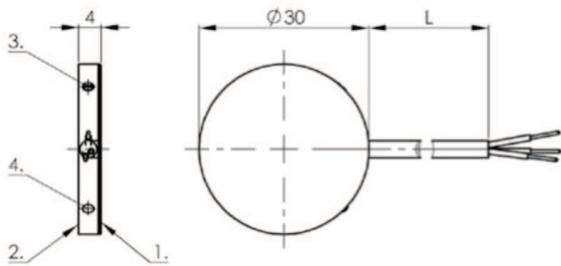
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00M8**



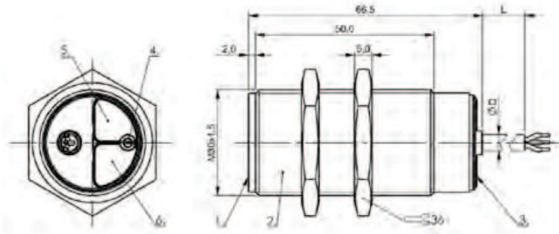
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00MF**



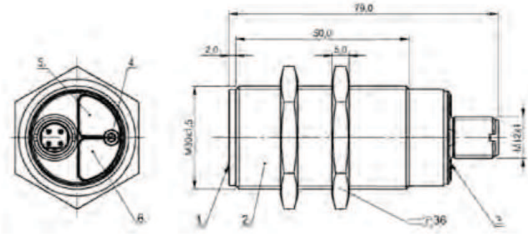
1) Sensing surface, 2) Housing, 3) Potentiometer, 4) LED function indicator

**BCS003F, BCS003A**



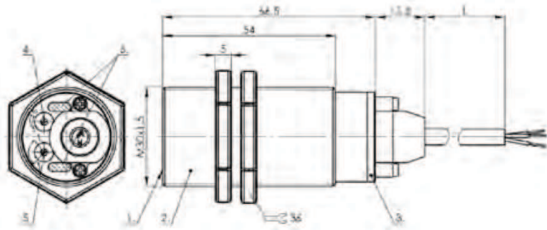
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00NM**



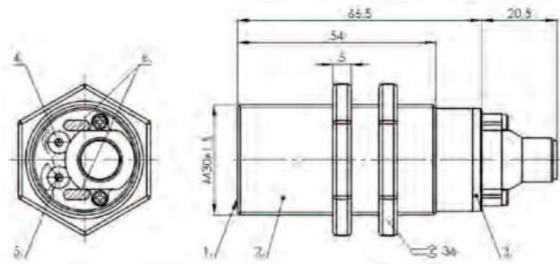
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00NA**



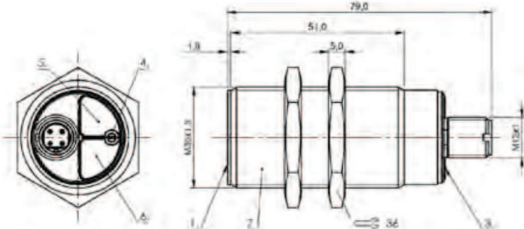
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator

**BCS004K**



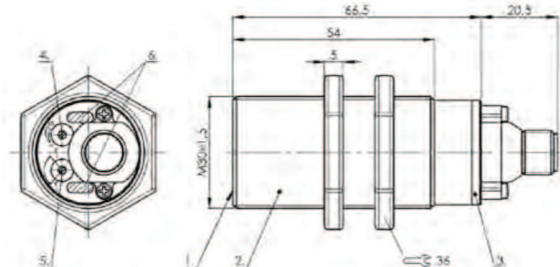
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator

**BCS004M**



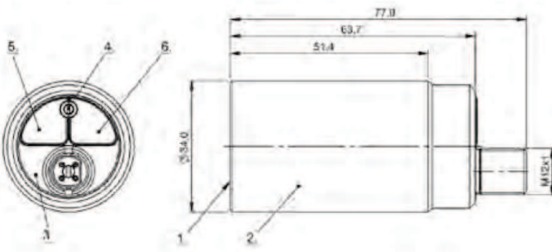
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00MR**



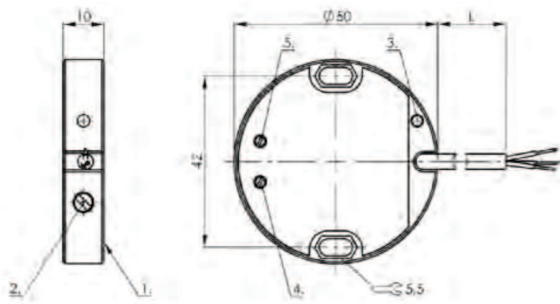
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator

**BCS004T**



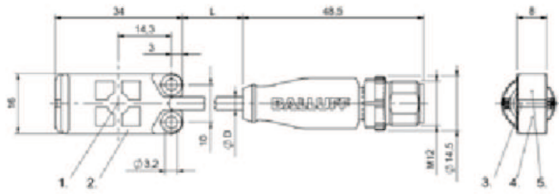
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00UJ**



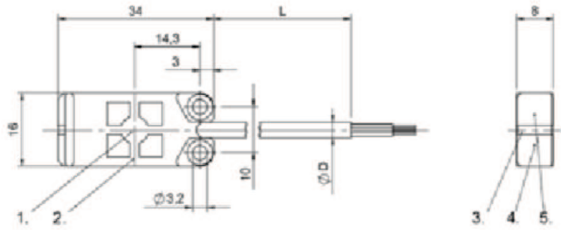
1) Sensing surface, 2) Potentiometer, 3) LED function indicator, 4) NO or NC selectable, 5) PNP or NPN selectable

**BCS003K**



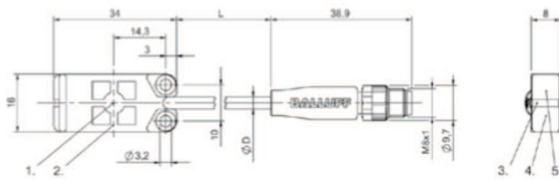
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012N**



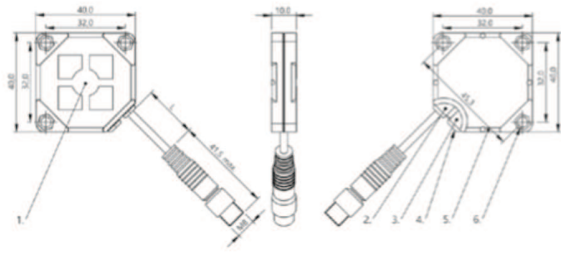
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012A, BCS012C**



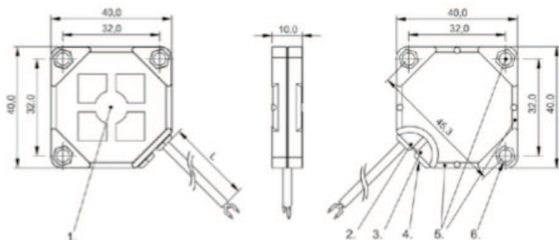
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012T, BCS012U**



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Potentiometer, 5) Fastening: Cable tie, 6) Fastening: screw 3xM3

**BCS0006, BCS0005**



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Potentiometer, 5) Fastening: Cable tie, 6) Fastening: screw 3xM3

**BCS00TR**



PNP normally open		
PNP normally closed		
PNP normally open/normally closed programmable	<b>BCS0084</b> BCS D500004-PPCFAC-EV02	
Dimension	Ø 50 x 10 mm	
Series	D50	
Installation	flush with container outer wall	
Connection	Cable, 2.00 m, PVC	
Switching frequency	2 Hz	
Interface	–	
Sensitivity	media-dependent, adjustable	
Function	Smart Level 15	
Additional features	Electrically conductive media, Foam and residue compensation	
Housing material	POM	
Material sensing surface	POM	
Ambient temperature	-10...60 °C	
Operating voltage $U_b$	10...35 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	
IP rating	IP67	
Productview	Page 304	





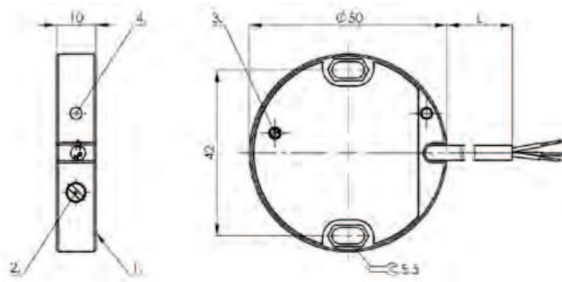
BCS012P BCS R08RRE-PIMFHC-EP00,3-GS04	BCS012Z BCS R08RRE-PSMFHC-EP00,3-GS75	BCS012H BCS R08RRE-PSMFHC-EP02
	<b>BCS0130</b> BCS R08RRE-POMFHC-EP00,3-GS75	<b>BCS012J</b> BCS R08RRE-POMFHC-EP02
34 x 16 x 8 mm	34 x 16 x 8 mm	34 x 16 x 8 mm
R08	R08	R08
flush with container outer wall	flush with container outer wall	flush with container outer wall
Cable with connector, M12x1-Male, 4-pin, 0.30 m, PUR	Cable with connector, M8x1-Male, 4-pin, 0.30 m, PUR	Cable, 2.00 m, PUR
10 Hz	10 Hz	10 Hz
IO-Link 1.1	–	–
teachable depending on media	teachable depending on media	teachable depending on media
Smart Level 50	Smart Level 50	Smart Level 50
Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation
PP	PP	PP
PP	PP	PP
-25...70 °C	-25...70 °C	-25...70 °C
18...30 VDC	12...30 VDC	12...30 VDC
cULus, IO-Link, CE, WEEE, EAC	cULus, CE, WEEE, EAC	CE, cULus, EAC, WEEE
IP67	IP67	IP67
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PNP normally open	<b>BCS0134</b> BCS Q40BBAA-PSCFHC-EP00,3-GS49	
PNP normally closed	<b>BCS0135</b> BCS Q40BBAA-POCFHC-EP00,3-GS49	
NPN normally open programmable		
PNP/NPN normally open/normally closed programmable		
Dimension	40 x 40 x 10 mm	
Series	Q40	
Installation	flush with container outer wall	
Connection	Cable with connector, M8x1-Male, 3-pin, 0.30 m, PUR	
Switching frequency	10 Hz	
Interface	—	
Sensitivity	media-dependent, adjustable	
Function	Smart Level 50	
Additional features	Electrically conductive media, Foam and residue compensation	
Housing material	PBT	
Material sensing surface	PBT	
Ambient temperature	-5...85 °C	
Operating voltage $U_b$	10...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	
IP rating	IP67	
Productview	Page 304	

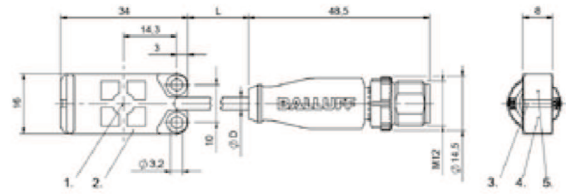


		<b>BCS018A</b> BCS Q40BBAA-PSICFHC-EP00,3-GS04	
<b>BCS0133</b> BCS Q40BBAA-GPCFHC-EP02			
40 x 40 x 10 mm		40 x 40 x 10 mm	
Q40		Q40	
flush with container outer wall		flush with container outer wall	
Cable, 2.00 m, PUR		Cable with connector, M12x1-Male, 3-pin, 0.30 m, PUR	
10 Hz		10 Hz	
—		IO-Link 1.1	
media-dependent, adjustable		teachable depending on media	
Smart Level 50		Smart Level 50	
Electrically conductive media, Foam and residue compensation		Electrically conductive media, Foam and residue compensation	
PBT		PBT	
PBT		PBT	
-5...85 °C		-20...80 °C	
10...30 VDC		10...30 VDC	
CE, cULus, EAC, WEEE		CE, cULus, EAC, WEEE, IO-Link	
IP67		IP67	
Page 304		Page 304	



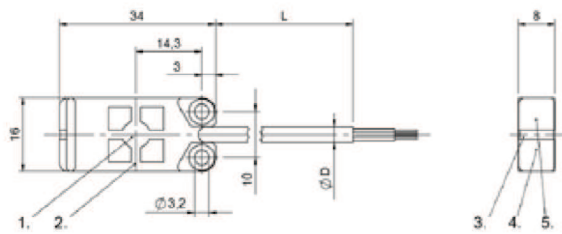
1) Sensing surface, 2) Potentiometer, 3) NO or NC selectable, 4) LED function indicator

**BCS0084**



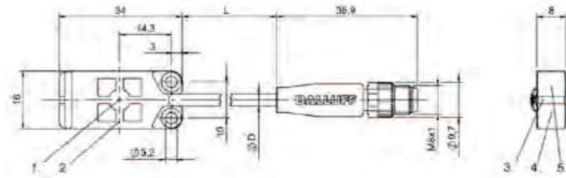
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012P**



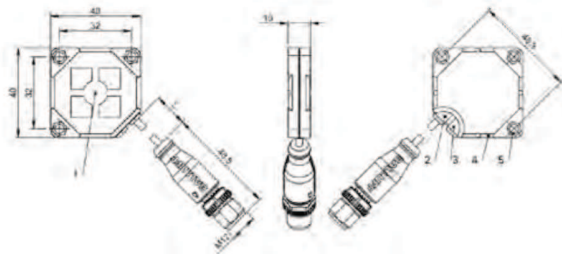
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012H, BCS012J**



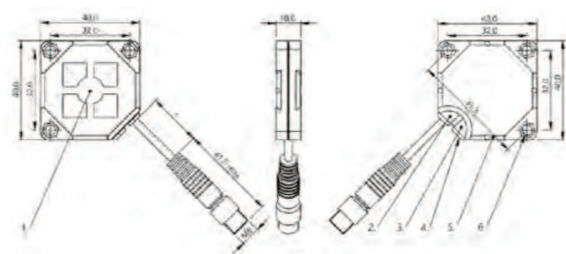
1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow

**BCS012Z, BCS0130**



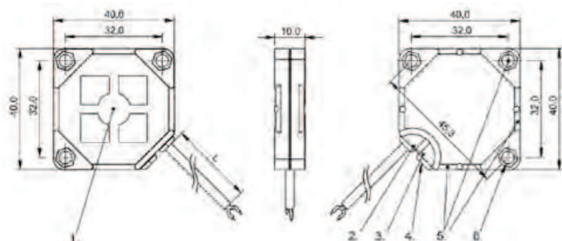
1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Fastening: Cable tie, 5) Fastening: screw 3xM3

**BCS018A**



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Potentiometer, 5) Fastening: Cable tie, 6) Fastening: screw 3xM3

**BCS0134, BCS0135**



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Potentiometer, 5) Fastening: Cable tie, 6) Fastening: screw 3xM3

**BCS0133**

Accessories

Connectivity

Power Supply

Software and  
System Solutions

Industrial Networking

Safety

Human Machine  
Interfaces

Machine Vision and  
Optical Identification

RFID

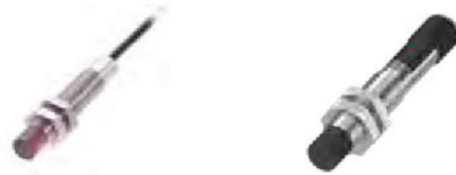
Sensors



	<b>BCS001Y</b> BCS G06T4E1-PSM30G-EP02	<b>BCS0022</b> BCS G06T4D2-PSM30G-S49G	
PNP normally open			
PNP normally closed			
Dimension	Ø 6.5 x 42 mm	Ø 6.5 x 54 mm	
Series	G06	G06	
Thread (A)	—	—	
Installation	non-flush	non-flush	
Connection	Cable, 2.00 m, PUR	Connector, M8x1-Male, 3-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	0.1...3 mm	0.1...3 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Function	—	—	
Additional features	—	—	
Housing material	Stainless steel (1.4301)	Stainless steel (1.4301)	
Material sensing surface	PTFE	PTFE	
Ambient temperature	-10...70 °C	-10...70 °C	
Operating voltage U <sub>b</sub>	11...30 VDC	11...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP65	IP65	
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	<b>BCS002M</b> BCS M08T4E2-PSM30G-S49G	<b>BCS00R0</b> BCS M12BBG1-PSC80H-EP02	<b>BCS00PN</b> BCS M12BBE2-PSC80H-S04K	<b>BCS006Z</b> BCS M12TTG1-PSM80G-ET02
		<b>BCS00R1</b> BCS M12BBG1-POC80H-EP02	<b>BCS00PP</b> BCS M12BBE2-POC80H-S04K	<b>BCS0070</b> BCS M12TTG1-POM80G-ET02
	Ø 8 x 54 mm	Ø 12 x 61 mm	Ø 12 x 75 mm	Ø 12 x 53 mm
	M08	M12	M12	M12
	M8x1	M12x1	M12x1	M12x1
	non-flush	non-flush	non-flush	non-flush
	Connector, M8x1-Male, 3-pin	Cable, 2.00 m, PUR	Connector, M12x1-Male, 3-pin	Cable, 2.00 m, PTFE
	100 Hz	100 Hz	100 Hz	100 Hz
	—	—	—	—
	0.1...3 mm	1...8 mm	1...8 mm	1...8 mm
	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable
	—	—	—	—
	—	—	—	—
	Stainless steel (1.4301)	PBT	PBT	PTFE
	PTFE	PBT	PBT	PTFE
	-10...70 °C	-25...85 °C	-25...85 °C	-30...70 °C
	11...30 VDC	10...30 VDC	10...30 VDC	12...35 VDC
	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
	IP65	IP67	IP67	IP65
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	<b>BCS00PC</b> BCS M12B4G1-PSC80H-EP02	<b>BCS00P4</b> BCS M12B4E2-PSC80H-S04K	
PNP normally open			
PNP normally closed			
Push-pull Normally open (NO)			
Dimension	Ø 12 x 61 mm	Ø 12 x 75 mm	
Series	M12	M12	
Thread (A)	M12x1	M12x1	
Installation	non-flush	non-flush	
Connection	Cable, 2.00 m, PUR	Connector, M12x1-Male, 3-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1...8 mm	1...8 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Function	—	—	
Additional features	—	—	
Housing material	Stainless steel (1.4305)	Stainless steel (1.4305)	
Material sensing surface	PBT	PBT	
Ambient temperature	-25...85 °C	-25...85 °C	
Operating voltage U <sub>b</sub>	10...30 VDC	10...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP67	IP67	
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	<b>BCS008A</b> BCS M18TT12-PSCFAG-AT02	<b>BCS00LL</b> BCS M18BBH1-PSC15H-EP02	<b>BCS00LM</b> BCS M18BBG2-PSC15H-S04K
			<b>BCS00LT</b> BCS M18BBG2-POC15H-S04K
<b>BCS0179</b> BCS M12K4D2-GSM80G-S04G			
Ø 12 x 60 mm	Ø 18 x 73 mm	Ø 18 x 75.5 mm	Ø 18 x 88.5 mm
M12	M18	M18	M18
M12x1	M18x1	M18x1	M18x1
non-flush	non-flush	non-flush	non-flush
Connector, M12x1-Male, 4-pin	Cable, 2.00 m, PTFE	Cable, 2.00 m, PUR	Connector, M12x1-Male, 4-pin
100 Hz	2 Hz	100 Hz	100 Hz
–	–	–	–
0.5...8 mm	–	2...15 mm	2...15 mm
Switching distance teachable	media-dependent, adjustable	Switching distance adjustable	Switching distance adjustable
–	Smart Level 15	–	–
–	Electrically conductive media, Foam and residue compensation	–	–
Stainless steel (1.4404)	PTFE	PBT	PBT
PEEK	PTFE	PBT	PBT
-10...80 °C	-10...60 °C	-25...85 °C	-25...85 °C
12...30 VDC	10...35 VDC	10...30 VDC	10...30 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP67	IP66	IP67	IP67
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PNP normally open	<b>BCS0073</b> BCS M18TT12-PSC15G-AT02	<b>BCS00ME</b> BCS M18B4G2-PSC15H-S04K	
PNP normally open/normally closed programmable			
Dimension	Ø 18 x 73 mm	Ø 18 x 88.5 mm	
Series	M18	M18	
Thread (A)	M18x1	M18x1	
Installation	non-flush	non-flush	
Connection	Cable, 2.00 m, PTFE	Connector, M12x1-Male, 4-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	2...15 mm	2...15 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Function	—	—	
Additional features	—	—	
Housing material	PTFE	Stainless steel (1.4305)	
Material sensing surface	PTFE	PBT	
Ambient temperature	-30...70 °C	-25...85 °C	
Operating voltage U <sub>b</sub>	10...35 VDC	10...30 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP67	IP67	
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<b>BCS006A</b> BCS M18T4G2-PSC15G-S04G	<b>BCS007Y</b> BCS M30BBM2-PPCFAG-S04G	<b>BCS0086</b> BCS M30TTH2-PSCFAG-AT02	<b>BCS00NT</b> BCS M30BBE1-PSC25H-EP02
Ø 18 x 75 mm	Ø 30 x 87 mm	Ø 30 x 72 mm	Ø 30 x 65.5 mm
M18	M30	M30	M30
M18x1	M30x1.5	M30x1.5	M30x1.5
non-flush	non-flush	non-flush	non-flush
Connector, M12x1-Male, 4-pin	Connector, M12x1-Male, 4-pin	Cable, 2.00 m, PTFE	Cable, 2.00 m, PUR
100 Hz	2 Hz	2 Hz	100 Hz
—	—	—	—
2...15 mm	—	—	1...25 mm
Switching distance adjustable	media-dependent, adjustable	media-dependent, adjustable	Switching distance adjustable
—	Smart Level 15	Smart Level 15	—
—	Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation	—
Stainless steel (1.4301)	PBT	PTFE	PBT
PTFE	PBT	PTFE	PBT
-30...70 °C	-10...60 °C	-10...60 °C	-25...85 °C
10...35 VDC	10...35 VDC	10...35 VDC	10...30 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP67	IP67	IP67	IP67
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PNP normally open	<b>BCS00NH</b> BCS M30BBE2-PSC25H-S04K		
PNP normally open/normally closed programmable		<b>BCS007F</b> BCS M30BBM2-PPC30G-S04G	
Dimension	Ø 30 x 78.5 mm	Ø 30 x 87 mm	
Series	M30	M30	
Thread (A)	M30x1.5	M30x1.5	
Installation	non-flush	non-flush	
Connection	Connector, M12x1-Male, 4-pin	Connector, M12x1-Male, 4-pin	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1...25 mm	1...30 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Function	—	—	
Additional features	—	—	
Housing material	PBT	PBT	
Material sensing surface	PBT	PBT	
Ambient temperature	-25...85 °C	-30...70 °C	
Operating voltage U <sub>b</sub>	10...30 VDC	10...35 VDC	
Approval/Conformity	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	
IP rating	IP67	IP66	
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BCS0077 BCS M30TTH2-PSC30G-AT02	BCS00N6 BCS M30B4E1-PSC25H-EP02	BCS00MY BCS M30B4E2-PSC25H-S04K	BCS007L BCS M30T4M2-PPC30G-S04G
Ø 30 x 72 mm	Ø 30 x 65.5 mm	Ø 30 x 78.5 mm	Ø 30 x 86.5 mm
M30	M30	M30	M30
M30x1.5	M30x1.5	M30x1.5	M30x1.5
non-flush	non-flush	non-flush	non-flush
Cable, 2.00 m, PTFE	Cable, 2.00 m, PUR	Connector, M12x1-Male, 4-pin	Connector, M12x1-Male, 4-pin
100 Hz	100 Hz	100 Hz	100 Hz
—	—	—	—
2...30 mm	1...25 mm	1...25 mm	1...30 mm
Switching distance adjustable	Switching distance adjustable	Switching distance adjustable	Switching distance adjustable
—	—	—	—
—	—	—	—
PTFE	Stainless steel (1.4305)	Stainless steel (1.4305)	Stainless steel (1.4301)
PTFE	PBT	PBT	PTFE
-30...70 °C	-25...85 °C	-25...85 °C	-30...70 °C
10...35 VDC	10...30 VDC	10...30 VDC	10...35 VDC
CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE	CE, cULus, EAC, WEEE
IP67	IP67	IP67	IP66
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PNP normally open	<b>BCS0105</b> BCS S44KK01-PSCFAG-EP00,3-GS49		
PNP normally closed			
PNP normally open/normally closed programmable		<b>BCS010L</b> BCS S44KK01-GPCFAG-EP02	
PNP/NPN normally open/normally closed codierbar			
Dimension	Ø 12 x 62.5 mm	Ø 12 x 62.5 mm	
Series	S44	S44	
Thread (A)	M12x1	M12x1	
Installation	non-flush	non-flush	
Connection	Cable with connector, M8x1-Male, 3-pin, 0.30 m, PUR	Cable, 2.00 m, PUR	
Switching frequency	5 Hz	5 Hz	
Interface	—	—	
Range	—	—	
Sensitivity	media-dependent, adjustable	media-dependent, adjustable	
Function	Smart Level 15	Smart Level 15	
Additional features	Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation	
Housing material	PEEK	PEEK	
Material sensing surface	PEEK	PEEK	
Ambient temperature	-5...105 °C, UL approval valid up to 85 °C	-5...105 °C, UL approval valid up to 85 °C	
Operating voltage $U_b$	10...30 VDC	10...30 VDC	
Approval/Conformity	CE, WEEE, cULus, EAC	CE, WEEE, cULus, EAC	
IP rating	IP67	IP67	
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	<b>BCS00ZL</b> BCS S44KK01-PSCFNG-EP00,3-GS49		<b>BCS0109</b> BCS S44KK02-PSCFAG-EP00,3-GS49	
			<b>BCS010A</b> BCS S44KK02-POCFAG-EP00,3-GS49	
		<b>BCS010N</b> BCS S44KK03-GPCFAG-EP02		<b>BCS010M</b> BCS S44KK02-GPCFAG-EP02
	Ø 12 x 62.5 mm	Ø 13.7 x 62.5 mm	Ø 11.9 x 62.5 mm	Ø 11.9 x 62.5 mm
	S44	S44	S44	S44
	M12x1	NPT 1/4"	G 1/4"	G 1/4"
	non-flush	non-flush	non-flush	non-flush
	Cable with connector, M8x1-Ma- le, 3-pin, 0.30 m, PUR	Cable, 2.00 m, PUR	Cable with connector, M8x1-Ma- le, 3-pin, 0.30 m, PUR	Cable, 2.00 m, PUR
	10 Hz	5 Hz	5 Hz	5 Hz
	–	–	–	–
	–	–	–	–
	media-dependent, adjustable	media-dependent, adjustable	media-dependent, adjustable	media-dependent, adjustable
	–	Smart Level 15	Smart Level 15	Smart Level 15
	–	Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation	Electrically conductive media, Foam and residue compensation
	PEEK	PEEK	PEEK	PEEK
	PEEK	PEEK	PEEK	PEEK
	-5...105 °C	-5...105 °C, UL approval valid up to 85 °C	-5...105 °C, UL approval valid up to 85 °C	-5...105 °C, UL approval valid up to 85 °C
	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
	CE, WEEE, EAC	CE, WEEE, cULus, EAC	CE, WEEE, cULus, EAC	CE, WEEE, cULus, EAC
	IP67	IP67	IP67	IP67
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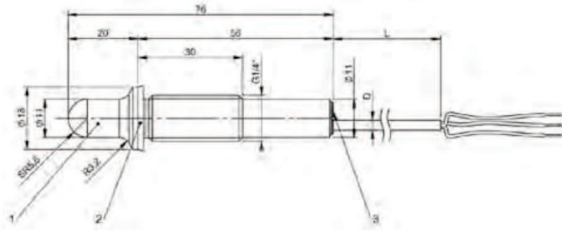


PNP normally open			
PNP normally closed			
PNP/NPN normally open/normally closed programmable	<b>BCS018T</b> BCS S30KK01-GPSFHF-EV05	<b>BCS018Z</b> BCS S30KK02-GPSFHF-EV05	
Dimension	Ø 18 x 76 mm	Ø 16.8 x 76 mm	
Series	–	–	
Thread (A)	G 1/4"	M12x1	
Installation	non-flush	non-flush	
Connection	Cable, 3-pin, 5 m, PVC	Cable, 3-pin, 5 m, PVC	
Switching frequency	5 Hz	5 Hz	
Interface	–	–	
Range	–	–	
Sensitivity	media-dependent, adjustable	media-dependent, adjustable	
Function	–	–	
Additional features	–	–	
Housing material	PEEK	PEEK	
Material sensing surface	PEEK	PEEK	
Ambient temperature	-10...105 °C	-10...105 °C	
Operating voltage $U_b$	18...30 VDC	18...30 VDC	
Approval/Conformity	CE, WEEE, FDA compliant, EAC	CE, WEEE, FDA compliant, EAC	
IP rating	IP68	IP68	
Productview	Page 318	Page 318	



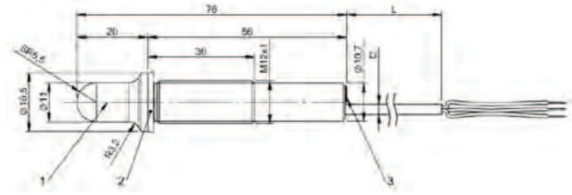


BCS011E BCS S04K501-PICFNG-S04G-T50	BCS011F BCS S04K501-PSCFNG-S04G-T50		
	<b>BCS011H</b> BCS S04K501-POCFNG-S04G-T50		
Ø 30 x 96 mm	Ø 30 x 96 mm		
S04	S04		
G 1/2"	G 1/2"		
non-flush	non-flush		
Connector, M12x1-Male, 4-pin	Connector, M12x1-Male, 4-pin		
5 Hz	5 Hz		
IO-Link 1.1	—		
—	—		
teachable depending on media	teachable depending on media		
Smart Level 100	Smart Level 100		
Electrically conductive media, Foam and residue compensation, CIP/SIP capable	Electrically conductive media, Foam and residue compensation, CIP/SIP capable		
Stainless steel (1.4404)	Stainless steel (1.4404)		
PEEK	PEEK		
-40...85 °C	-40...85 °C		
18...30 VDC	12...30 VDC		
CE, IO-Link, EAC, WEEE, cULus LISTED, designed according to EHEDG specifications, FDA compliant	CE, WEEE, IO-Link, cULus LISTED, EAC, designed according to EHEDG specifications, FDA compliant		
IP68	IP68		
Page 321	Page 321		



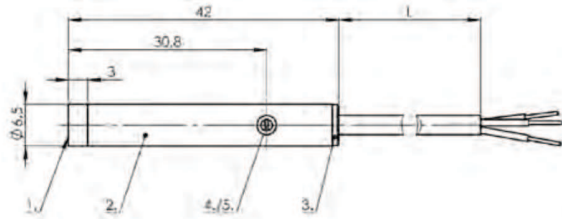
1) Sensing surface, 2) Sealing ring, 3) Potentiometer

**BCS018T**



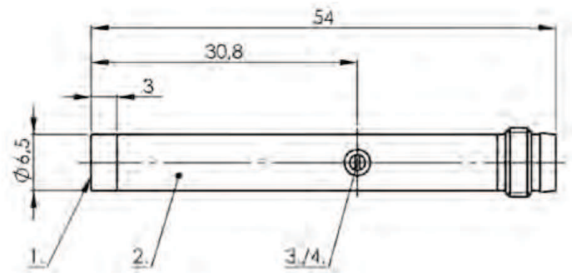
1) Sensing surface, 2) Flat gasket, 3) Potentiometer

**BCS018Z**



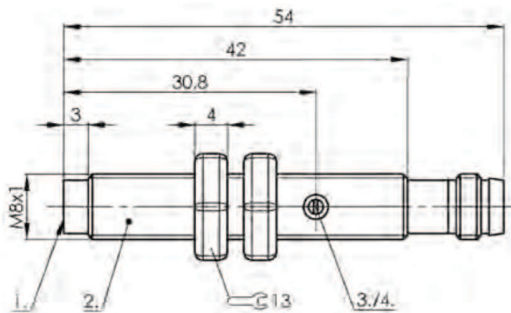
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS001Y**



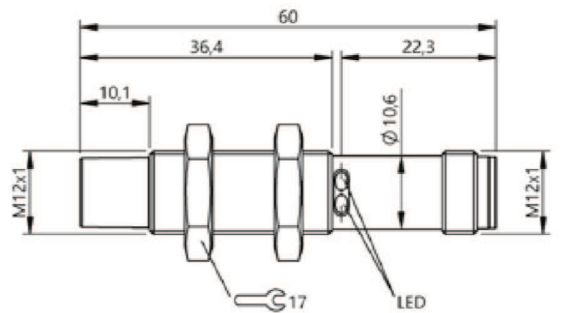
1) Sensing surface, 2) Housing, 3) Potentiometer, 4) LED function indicator

**BCS0022**

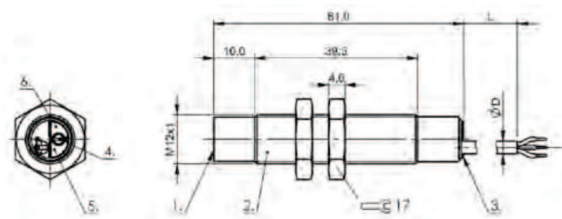


1) Sensing surface, 2) Housing, 3) Potentiometer, 4) LED function indicator

**BCS002M**

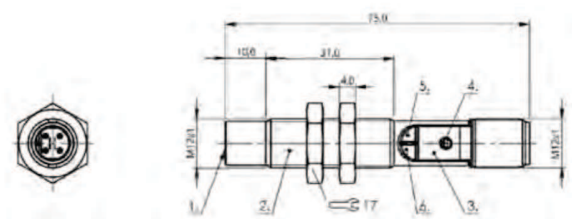


**BCS0179**



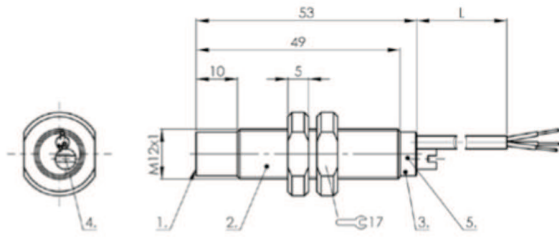
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00R0, BCS00R1, BCS00PC**



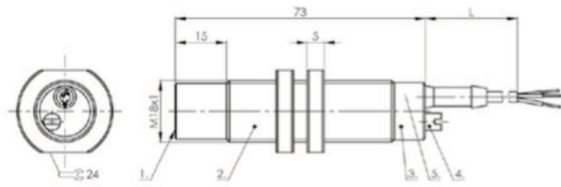
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00PN, BCS00PP, BCS00P4**



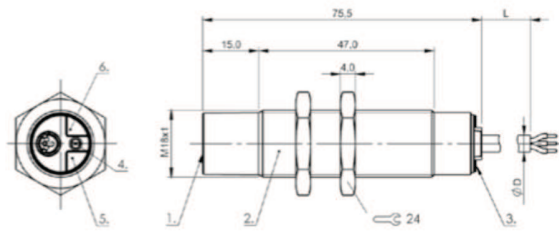
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS006Z, BCS0070**



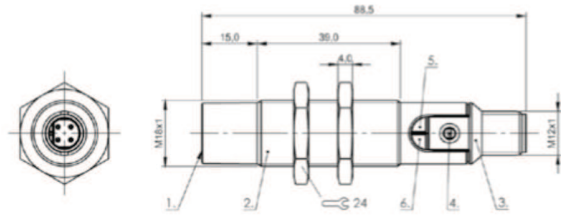
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS008A**



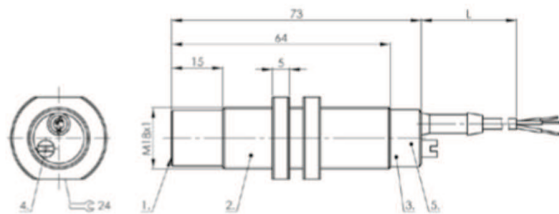
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00LL**



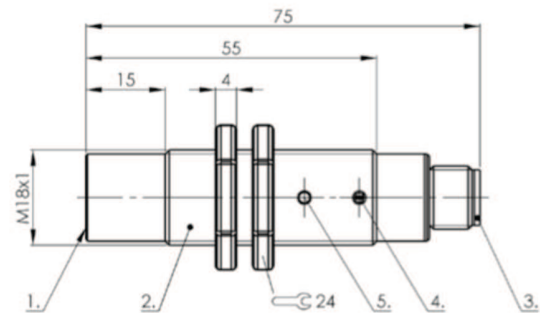
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

**BCS00LM, BCS00LT, BCS00ME**



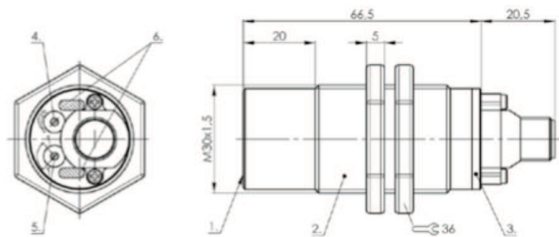
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS0073**



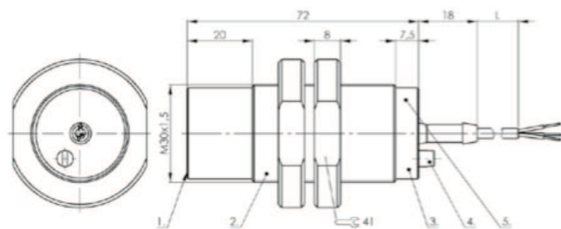
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS006A**



1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator

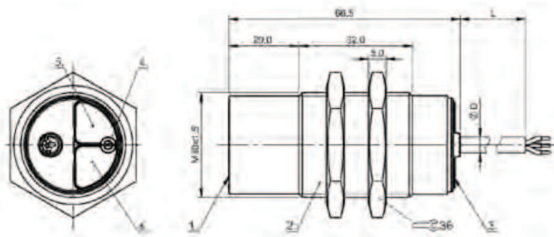
**BCS007Y**



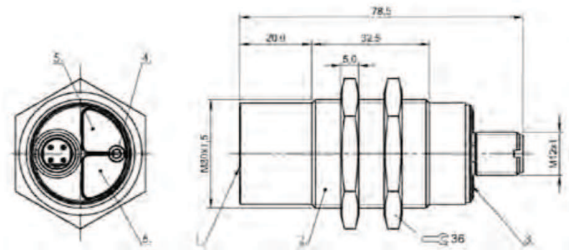
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator

**BCS0086**

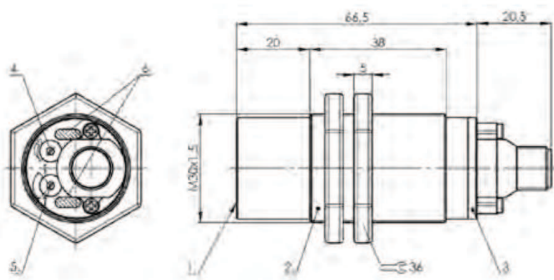
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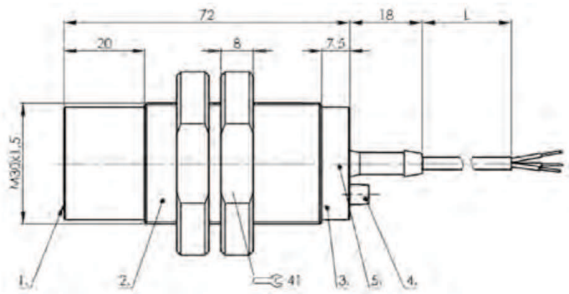
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator  
**BCS00NT, BCS00NG**



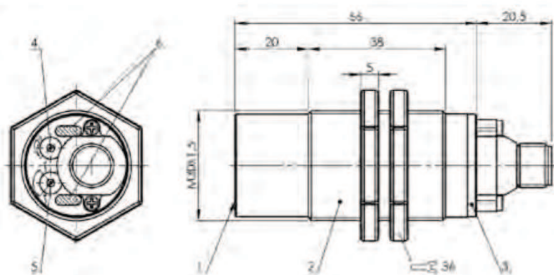
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator  
**BCS00NH, BCS00MY**



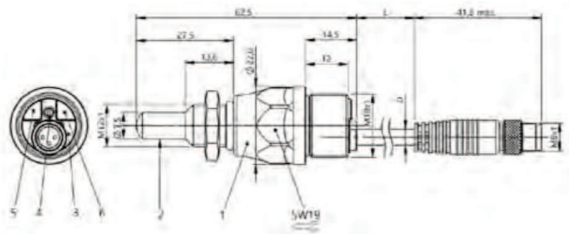
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator  
**BCS007F**



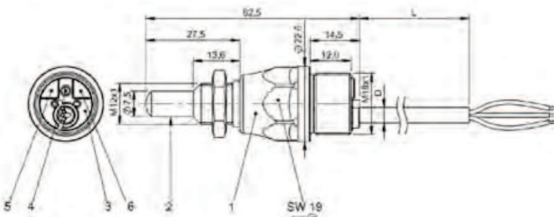
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator  
**BCS0077**



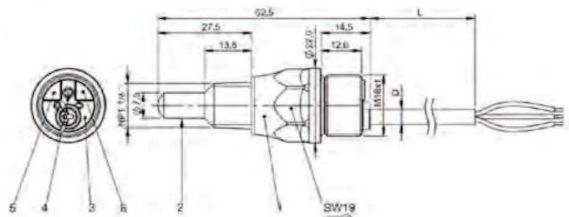
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator  
**BCS007L**



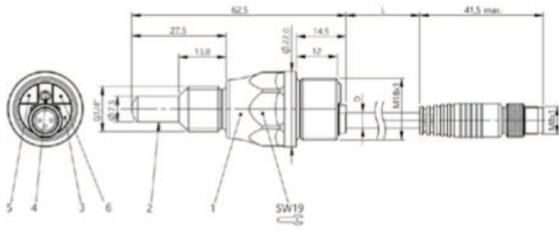
1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function Indicator yellow, 6) Power indicator green  
**BCS0105, BCS00ZL**



1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green  
**BCS010L**

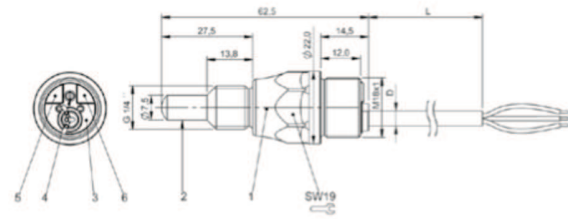


1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green  
**BCS010N**



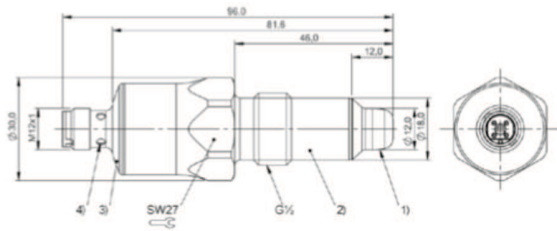
1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green

**BCS0109, BCS010A**



1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green

**BCS010M**



1) Sensing surface, 2) Housing, 3) Cover, 4) LED function indicator

**BCS011E, BCS011F, BCS011H**



	<b>BCS0010</b> BCS G04T4D-XXS10C-EP02-GZ01-002	<b>BCS0012</b> BCS G06T4B-XXS15C-EP02-GZ01-002	
Dimension	Ø 4 x 29 mm	Ø 6.5 x 18 mm	
Series	G04	G06	
Thread (A)	—	—	
Installation	for flush mounting	for flush mounting	
Connection	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR	
Interface	Special interface	Special interface	
Range	0.1...1 mm	0.1...1.5 mm	
Sensitivity	adjustable on base unit	adjustable on base unit	
Housing material	Stainless steel (1.4301)	Stainless steel (1.4301)	
Material sensing surface	PTFE	PTFE	
Ambient temperature	-30...80 °C	-30...80 °C	
Approval/Conformity	CE, cULus	CE, cULus	
Protection degree	IP67	IP67	
Productview	Page 328	Page 328	



	<b>BCS0013</b> BCS G06T4B-XXS30G-EP02-GZ01-002	<b>BCS0016</b> BCS G10T4B-XXS40C-EP02-GZ01-002	<b>BCS0017</b> BCS G10T4C-XXS80G-EP02-GZ01-002	<b>BCS0011</b> BCS M05T4C-XXS10C-EP02-GZ01-002
	Ø 6.5 x 19 mm	Ø 10 x 20 mm	Ø 10 x 24 mm	Ø 5 x 29 mm
	G06	G10	G10	M05
	—	—	—	M5x0.5
	non-flush	for flush mounting	non-flush	for flush mounting
	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR
	Special interface	Special interface	Special interface	Special interface
	0.1...3 mm	0.1...4 mm	1...8 mm	0.1...1 mm
	adjustable on base unit	adjustable on base unit	adjustable on base unit	adjustable on base unit
	Stainless steel (1.4301)	Stainless steel (1.4301)	Stainless steel (1.4301)	Stainless steel (1.4301)
	PTFE	PTFE	PTFE	PTFE
	-30...80 °C	-30...80 °C	-30...80 °C	-30...80 °C
	CE, cULus	CE, cULus	CE, cULus	CE, cULus
	IP67	IP67	IP67	IP67
	Page 328	Page 328	Page 328	Page 328



	<b>BCS0014</b> BCS M08T4C-XXS15C-EP02-GZ01-002	<b>BCS0015</b> BCS M08T4C1-XXS30G-EP02-GZ01-002	
Dimension	Ø 8 x 25 mm	Ø 8 x 28 mm	
Series	M08	M08	
Thread (A)	M8x1	M8x1	
Installation	for flush mounting	non-flush	
Connection	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR	
Interface	Special interface	Special interface	
Range	0.1...1.5 mm	0.1...3 mm	
Sensitivity	adjustable on base unit	adjustable on base unit	
Housing material	Stainless steel (1.4301)	Stainless steel (1.4301)	
Material sensing surface	PTFE	PTFE	
Ambient temperature	-30...80 °C	-30...80 °C	
Approval/Conformity	CE, cULus	CE, cULus	
Protection degree	IP67	IP67	
Productview	Page 328	Page 328	





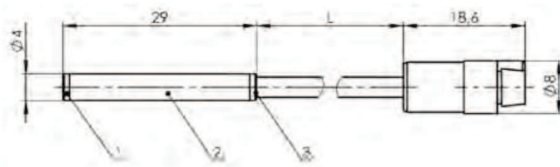
BCS0019	BCS001A	BCS001C	BCS001F
BCS M12T4D1-XXS80G-EP02-GZ01-002	BCS D18T403-XXS30C-EP02-GZ01-002	BCS D18T404-XXS50C-EP02-GZ01-002	BCS D22T405-XXS10C-EP02-GZ01-002
Ø 12 x 34 mm	Ø 18 x 2.5 mm	Ø 18 x 4 mm	Ø 22 x 4 mm
M12	D18	D18	D22
M12x1	—	—	—
non-flush	for flush mounting	for flush mounting	for flush mounting
Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PVC	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Special connector-Special connector, 2.00 m, PUR
Special interface	Special interface	Special interface	Special interface
1...8 mm	0.1...3 mm	1...5 mm	1...10 mm
adjustable on base unit	adjustable on base unit	adjustable on base unit	adjustable on base unit
Stainless steel (1.4301)	Stainless steel (1.4301)	Stainless steel (1.4301)	Stainless steel (1.4301)
PTFE	PTFE	PTFE	PTFE
-30...80 °C	-30...70 °C	-30...80 °C	-30...80 °C
CE, cULus	CE, cULus	CE, cULus	CE, cULus
IP67	IP66	IP66	IP66
Page 329	Page 329	Page 329	Page 329



	<b>BCS001H</b> BCS D22T408-XXS10C-EP02-GZ01-002		
Dimension	Ø 22 x 10 mm		
Series	D22		
Thread (A)	—		
Installation	for flush mounting		
Connection	Cable with connector, Special connector-Special connector, 2.00 m, PUR		
Interface	Special interface		
Range	1...10 mm		
Sensitivity	adjustable on base unit		
Housing material	Stainless steel (1.4301)		
Material sensing surface	PTFE		
Ambient temperature	-30...80 °C		
Approval/Conformity	CE, cULus		
Protection degree	IP66		
Productview	Page 329		

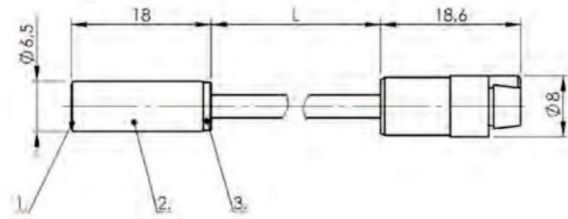
- Sensors
- RFID
- Machine Vision and Optical Identification
- Human Machine Interfaces
- Safety
- Industrial Networking
- Software and System Solutions
- Power Supply
- Connectivity
- Accessories

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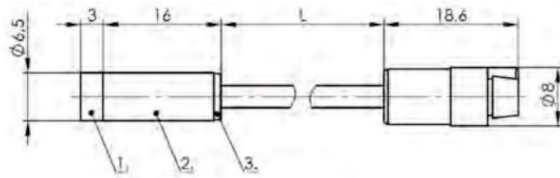
1) Sensing surface, 2) Housing, 3) Cover

**BCS0010**



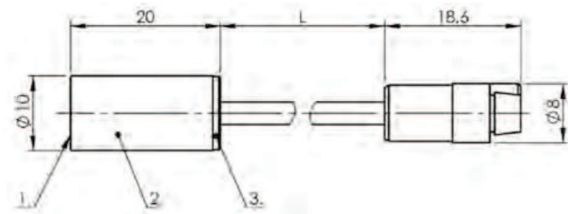
1) Sensing surface, 2) Housing, 3) Cover

**BCS0012**



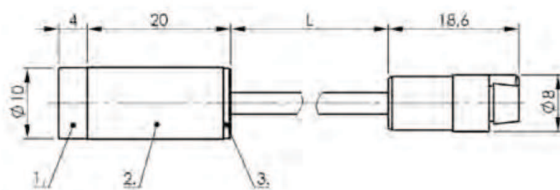
1) Sensing surface, 2) Housing, 3) Cover

**BCS0013**



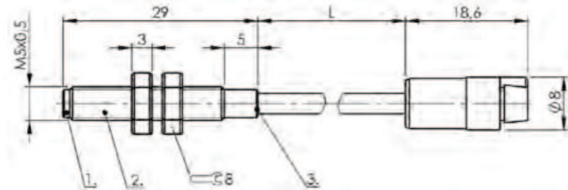
1) Sensing surface, 2) Housing, 3) Cover

**BCS0016**



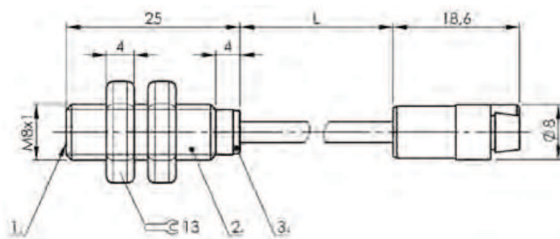
1) Sensing surface, 2) Housing, 3) Cover

**BCS0017**



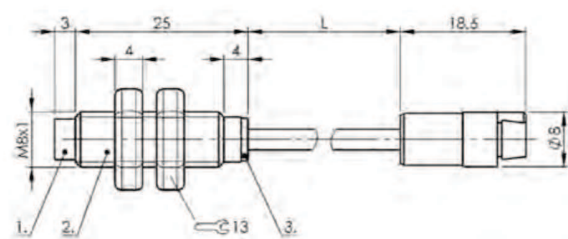
1) Sensing surface, 2) Housing, 3) Cover

**BCS0011**



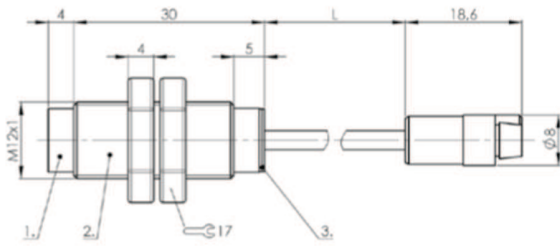
1) Sensing surface, 2) Housing, 3) Cover

**BCS0014**



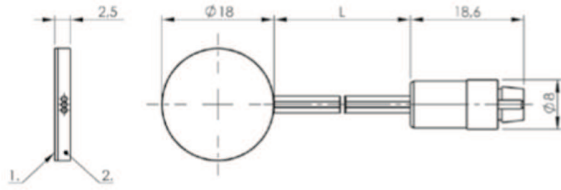
1) Sensing surface, 2) Housing, 3) Cover

**BCS0015**



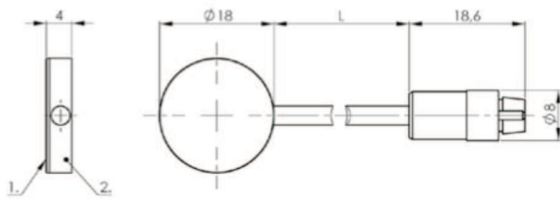
1) Sensing surface, 2) Housing, 3) Cover

**BCS0019**



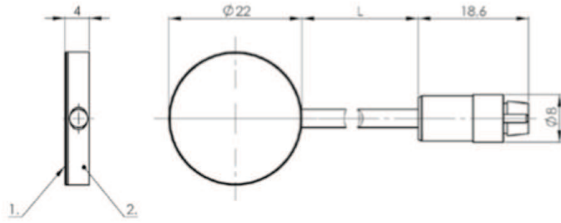
1) Sensing surface, 2) Housing

**BCS001A**



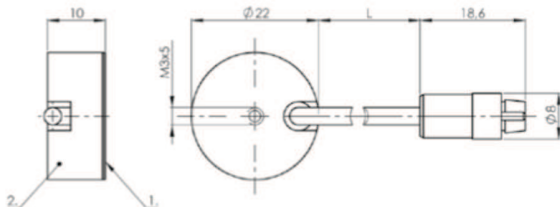
1) Sensing surface, 2) Housing

**BCS001C**



1) Sensing surface, 2) Housing

**BCS001F**



1) Sensing surface, 2) Housing

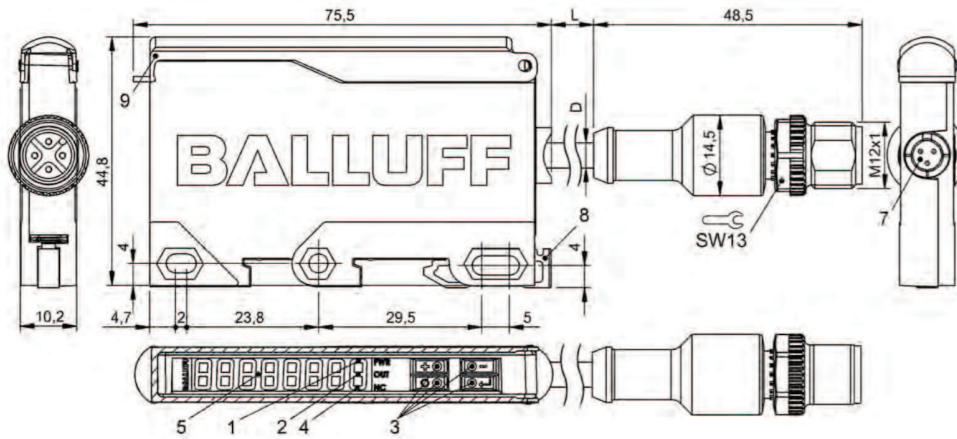
**BCS001H**



PNP/NPN normally open/normally closed programmable	<b>BAE00LC</b> BAE SA-CS-027-YI-BP00,3-GS04		
Analog, voltage 0...10 V/current 4...20 mA		<b>BAE00KJ</b> BAE SA-CS-026-YP-BP02	
Dimension	10.5 x 45 x 75.5 mm	10.5 x 45 x 75.5 mm	
Connection	Cable with connector, M12x1 connector, 4-pin, 0.30 m, PUR	Cable, 2.00 m, PUR	
Switching frequency	50 Hz	100 Hz	
Interface	IO-Link 1.1	—	
Housing material	PBT	PBT	
Ambient temperature	-10...70 °C	-10...70 °C	
Operating voltage $U_b$	18...30 VDC	15...30 VDC	
Approval/Conformity	CE, IO-Link, cULus	CE, cULus	
Protection degree	IP40	IP40	
Time function	On/off delay time programmable	On/off delay time programmable	
Productview	Page 332	Page 332	

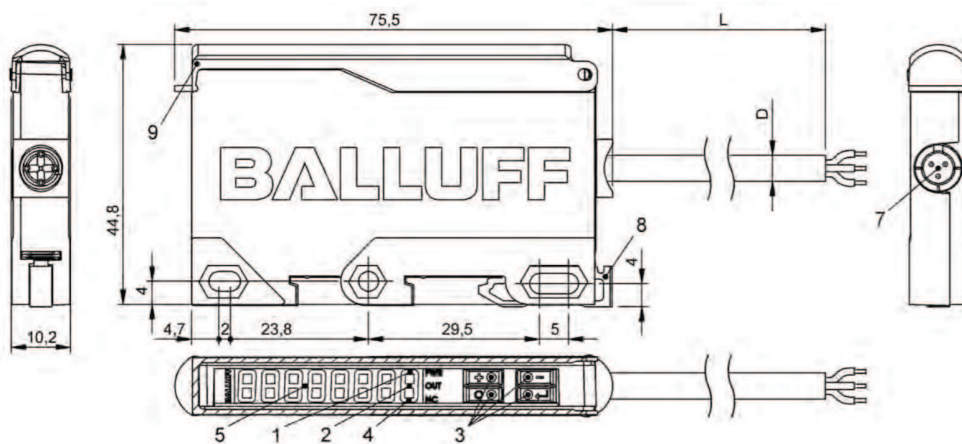


	<b>BAE000A</b> BAE SA-CS-026-YP-BP00,3-GS04	<b>BAE000KH</b> BAE SA-CS-025-YP-BP02	<b>BAE000L9</b> BAE SA-CS-025-YP-BP00,3-GS04	
	10.5 x 45 x 75.5 mm	10.5 x 45 x 75.5 mm	10.5 x 45 x 75.5 mm	
	Cable with connector, M12x1, 0.30 m, PUR	Cable, 2.00 m, PUR	Cable with connector, M12x1, 0.30 m, PUR	
	100 Hz	100 Hz	100 Hz	
	—	—	—	
	PBT	PBT	PBT	
	-10...70 °C	-10...70 °C	-10...70 °C	
	15...30 VDC	12...30 VDC	12...30 VDC	
	CE, cULus	CE, cULus	CE, cULus	
	IP40	IP40	IP40	
	On/off delay time programmable	—	—	
	Page 332	Page 333	Page 333	



1) LED Power, 2) LED function indicator, 3) 4x operating keys, 4) LED N.C. function active, 5) 7x seven-segment display, 7) Plug connection sensor, 8) DIN rail mount 35mm, 9) Flap

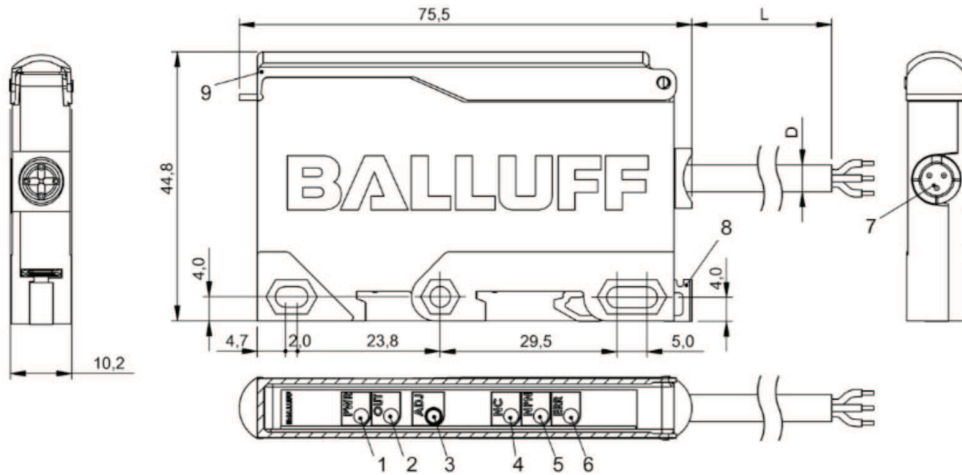
**BAE00LC, BAE00LA**



1) LED Power, 2) LED function indicator, 3) 4x operating keys, 4) LED N.C. function active, 5) 7x seven-segment display, 7) Plug connection sensor, 8) DIN rail mount 35mm, 9) Flap

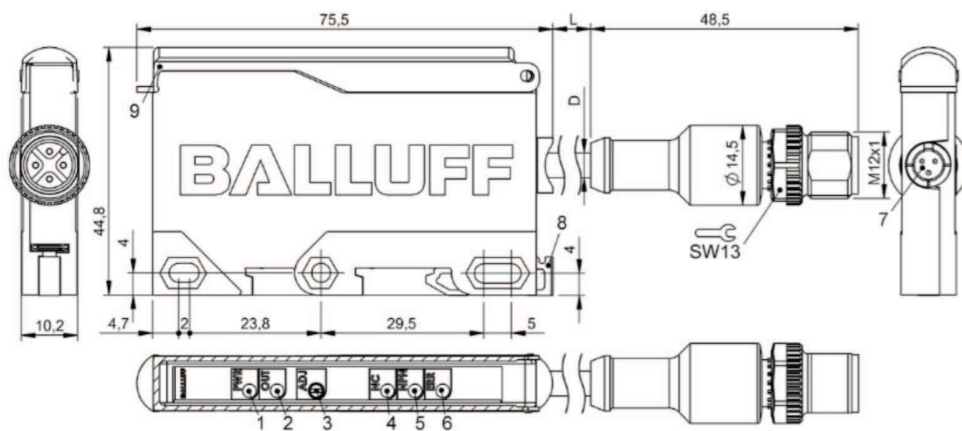
**BAE00KJ**





1) LED Power, 2) LED function indicator, 3) Sn, 4) LED N.C. function active, 5) Switching stage NPN, active, 6) LED Error, 7) Plug connection sensor, 8) DIN rail mount 35mm, 9) Flap

**BAE00KH**



1) LED Power, 2) LED function indicator, 3) Sn, 4) LED N.C. function active, 5) Switching stage NPN, active, 6) LED Error, 7) Plug connection sensor, 8) DIN rail mount 35mm, 9) Flap

**BAE00L9**

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Normally open		<b>BCS000K</b> BCS M18KM3-UST80G-BV02	
Normally closed		<b>BCS000J</b> BCS M18KM3-UOT80G-BV02	
Analog, current falling on approach			
With sensor amplifier	<b>BCS013E</b> BCS Z094401-XXS20B-SZ02-T07		
Dimension	Ø 18 x 38.5 mm	Ø 18 x 84 mm	
Series	Z09	M18	
Thread (A)	M12x1	M18x1	
Installation	for flush mounting	non-flush	
Connection	Connector-triaxial plug	Cable, 2.00 m, PVC	
Switching frequency	5 Hz	40 Hz	
Interface	Special interface	—	
Range	0.1...2 mm	0...6.5 mm	
Sensitivity	adjustable on base unit	Switching distance adjustable	
Housing material	Stainless steel (1.4104)	PBT	
Material sensing surface	Stainless steel (1.4301) epoxy	PBT	
Ambient temperature	0...180 °C	-25...80 °C	
Pressure rating max.	150 bar	—	
Operating voltage U <sub>b</sub>	—	20...250 VDC/20...250 VAC	
Approval/Conformity	CE	CE	
Protection degree	IP68	IP67	
Productview	Page 340	Page 340	



	<b>BCW0001</b> BCW M18B4M1-ICM80C-DV02		
		<b>BCS00A3</b> BCS S10T401-XXSFNC-SZ02-T07	<b>BCS00A1</b> BCS M18T4H1-XXS10H-SZ02-T08
	Ø 18 x 70 mm	Ø 18 x 61 mm	Ø 18 x 65 mm
	M18	S10	M18
	M18x1	M18x1	M18x1
	for flush mounting	non-flush	non-flush
	Cable, 2.00 m, PVC	Connector, Special connector-Special connector	Connector, Special connector-Special connector
	100 Hz	5 Hz	50 Hz
	–	Special interface	Special interface
	0...8 mm	–	1...10 mm
	–	adjustable on base unit	adjustable on base unit
	Stainless steel	Stainless steel (1.4301)	Stainless steel (1.4301)
	PBT	PTFE	PTFE
	10...55 °C	-10...180 °C	-180...250 °C
	–	6 bar	–
	12...35 VDC	–	–
	CE, cULus	CE	CE
	IP67	IP68	IP66
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PNP normally open/normally closed	<b>BCS00W7</b> BCS G20L4Q-PAC10C-EV03-D03		
Normally open		<b>BCS000W</b> BCS M30KN2-UST15G-AV02	
Normally closed		<b>BCS000U</b> BCS M30KN2-UOT15G-AV02	
With sensor amplifier			
Dimension	Ø 20 x 81 mm	Ø 30 x 99 mm	
Series	G20	M30	
Thread (A)	—	M30x1.5	
Installation	for flush mounting	non-flush	
Connection	Cable, 3.00 m, PVC	Cable, 2.00 m, PVC	
Switching frequency	100 Hz	100 Hz	
Interface	—	—	
Range	1.5...10 mm	0...12.1 mm	
Sensitivity	Switching distance adjustable	Switching distance adjustable	
Housing material	Stainless steel (1.4301)	PBT	
Material sensing surface	LCP	PBT	
Ambient temperature	-25...70 °C	-25...70 °C	
Pressure rating max.	—	—	
Operating voltage $U_b$	10...30 VDC	20...250 VDC/20...250 VAC	
Approval/Conformity	CE	CE	
Protection degree	IP65	IP65	
Productview	Page 340	Page 340	



	<b>BCS00A2</b> BCS M30T4G1-XXS20H-SZ02-T08	<b>BCS000Y</b> BCS F01CP01-XXS10C-EP02-GZ01-002	<b>BCW0004</b> BCW F03EA85-XXSFNC-EP00,3-GZ01
	Ø 30 x 65 mm	90 x 16 x 4 mm	33 x 2 x 850 mm
	M30	F01	F03
	M30x1.5	–	–
	non-flush	flush with container outer wall	flush with container outer wall
	Connector, Special connector-Special connector	Cable with connector, Special connector-Special connector, 2.00 m, PUR	Cable with connector, Binder 719, 3-pin, 0.3 m, TPU
	100 Hz	100 Hz	50 Hz
	Special interface	Special interface	Special interface
	1...20 mm	2...10 mm	–
	adjustable on base unit	adjustable on base unit	adjustable on base unit
	Stainless steel (1.4301)	PC PUR	PET PA
	PTFE	PUR	3M VHB 5925
	-180...250 °C	0...60 °C	0...60 °C
	–	–	–
	–	4...8 VDC	3...8 VDC
	CE	CE, cULus	CE, UL Listed
	IP66	IP60	IP64
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PNP normally open	<b>BCS006H</b> BCS S01T401-PSCFNG-KM16-T02	<b>BCS00A6</b> BCS S03T401-PSCFNH-KM16-T02	
PNP normally closed	<b>BCS006J</b> BCS S01T401-POCFNG-KM16-T02		
NPN normally closed		<b>BCS00A9</b> BCS S03T401-NOCFNH-KM16-T02	
Dimension	54.8 x 48.5 x 106 mm	54.8 x 48.5 x 106 mm	
Series	S01	S03	
Thread (A)	M18x1	J 3/8" NPTF	
Installation	non-flush	non-flush	
Connection	Clamping terminal	Clamping terminal	
Switching frequency	5 Hz	100 Hz	
Interface	—	—	
Range	—	—	
Sensitivity	media-dependent, adjustable	media-dependent, adjustable	
Housing material	Stainless steel (1.4305)	Stainless steel (1.4305)	
Material sensing surface	PTFE	PTFE	
Ambient temperature	-30...125 °C	-30...125 °C	
Pressure rating max.	10 bar	10 bar	
Operating voltage $U_b$	10...35 VDC	10...35 VDC	
Approval/Conformity	CE	CE	
Protection degree	IP67	IP67	
Productview	Page 341	Page 341	



<b>BCS006M</b> BCS S02T401-PSCFNG-KM16-T02			
54.8 x 48.5 x 106 mm			
S02			
R 3/8"			
non-flush			
Clamping terminal			
5 Hz			
—			
—			
media-dependent, adjustable			
Stainless steel (1.4305)			
PTFE			
-30...125 °C			
10 bar			
10...35 VDC			
CE			
IP67			
Page 341			

Sensors

RFID

Machine Vision and Optical Identification

Human Machine Interfaces

Safety

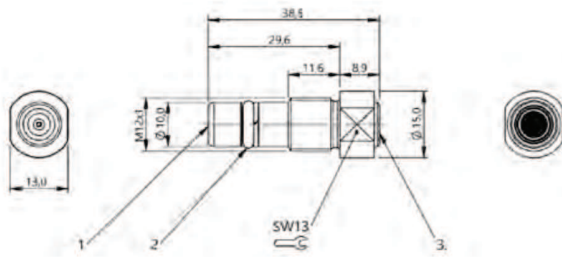
Industrial Networking

Software and System Solutions

Power Supply

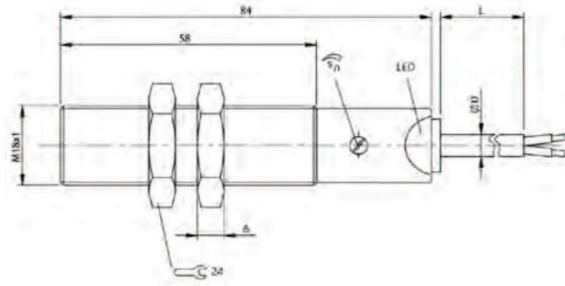
Connectivity

Accessories

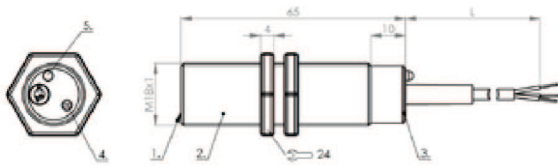


1) Sensing surface, 2) O-Ring with thrust ring, 3) Triaxial connector

**BCS013E**

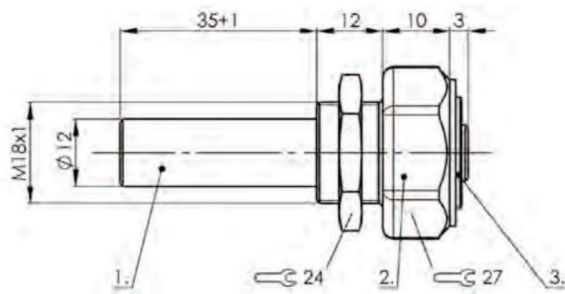


**BCS000K, BCS000J**



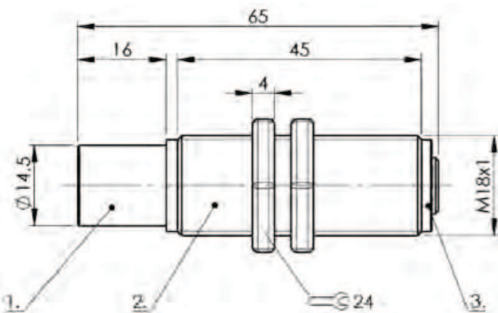
1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) Signal LED

**BCW0001**



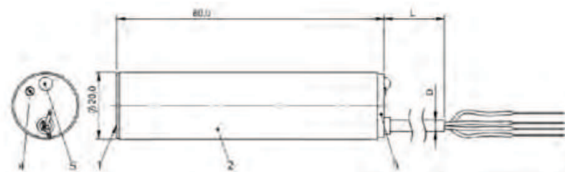
1) Sensing surface, 2) Housing, 3) Cover

**BCS00A3**



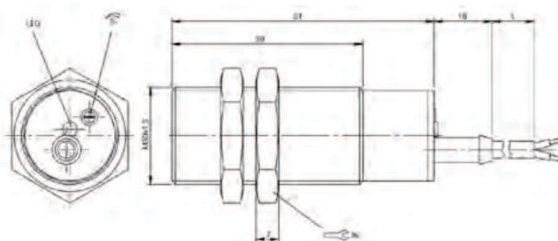
1) Sensing surface, 2) Housing, 3) Cover

**BCS00A1**

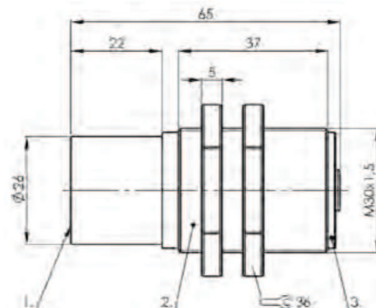


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) Function Indicator yellow

**BCS00W7**



**BCS000W, BCS000U**



1) Sensing surface, 2) Housing, 3) Cover

**BCS00A2**