

Capacitive Sensors A level sensor for all media

Balluff's state-of-the-art, industry leading line of capacitive sensors newest member is the Advanced SMARTLEVEL. This sensor combines standard capacitive sensing technology and the patented SMARTLEVEL technology enabling the ability to sense solids and highly conductive acids and bases with the utmost reliability.

The Advanced SMARTLEVEL is housed in 316 stainless steel for the most aggressive environments. The PEEK sensing nose will provide protection against sticky and adhesive materials. This combination of housing materials gives the sensor an IP69 rating and is suitable for use in autoclaves for one hour. When used with the proper mounting accessories the sensor can be used in hygienic applications. Integration into control systems is fast and flexible with either discrete outputs or with IO-Link communication. Teaching the Advanced SMARTLEVEL without IO-Link is easy with the remote teach-in connection (white wire) or with parametrization through IO-Link.



IO-Link



Features / Benefits

- Balluff's patented SMARTLEVEL technology
- IO-Link or discrete output versions
- Detects conductive fluids, solids and granulates
- 316 stainless steel and PEEK housing
- Remote teach via white wire
- Excellent foam and deposit compensation
- Suitable for use in autoclaves
- IP68 / IP69K
- Can be installed in plastic or metal tanks

Advantages of SMARTLEVEL

- Ignores foaming, filming or material buildup preventing false triggers
- Reliably detects highly conductive acids and bases up to 100mS/cm
- Helps eliminate unnecessary cleaning due to filming or material clinging to the sensing face
- Adjustment free after initial setup

Level detection applications

- Liquids
- Powders
- Granulates
- Paste like medias - grease
- Cleaning fluids
- Acids and bases

Industries

- Automotive
- Packaging
- Food & Beverage
- Pharmaceutical
- Plastics & Rubber
- Manufacturing



Order Code	Part number	Description
BCS011E	BCS S04K501-PICFNG-S04G-T50	Advanced SMARTLEVEL, G ½, IO-Link, STN. STL. / PEEK, EPDM
BCS011F	BCS S04K501-PSCFNG-S04G-T50	Advanced SMARTLEVEL, G ½, PNP, NO, STN. STL. / PEEK, EPDM
BCS011H	BCS S04K501-POCFNG-S04G-T50	Advanced SMARTLEVEL, G ½, PNP, NC, STN. STL. / PEEK, EPDM
BCS011J	BCS S04K501-NSCFNG-S04G-T50	Advanced SMARTLEVEL, G ½, NPN, NO, STN. STL. / PEEK, EPDM
BCS011K	BCS S04K501-NOCFNG-S04G-T50	Advanced SMARTLEVEL, G ½, NPN, NC, STN. STL. / PEEK, EPDM
BCS011L	BCS S04K501-PICFNG-S04G-T51	Advanced SMARTLEVEL, G ½, IO-Link, STN. STL. / PEEK, Viton
BCS011M	BCS S04K501-PSCFNG-S04G-T51	Advanced SMARTLEVEL, G ½, PNP, NO, STN. STL. / PEEK, Viton
BCS011N	BCS S04K501-POCFNG-S04G-T51	Advanced SMARTLEVEL, G ½, PNP, NC, STN. STL. / PEEK, Viton
BCS011P	BCS S04K501-NSCFNG-S04G-T51	Advanced SMARTLEVEL, G ½, NPN, NO, STN. STL. / PEEK, Viton
BCS011R	BCS S04K501-NOCFNG-S04G-T51	Advanced SMARTLEVEL, G ½, NPN, NC, STN. STL. / PEEK, Viton
BAM0292	BAM AD-CS-013-1G2/3G4-5	Screw-in adapter with hex head, G ¾ male, G ½ female
BAM0293	BAM AD-CS-013-1G2/1G0-5	Screw-in adapter, G ¾ male, G ½ female
BAM0294	BAM AD-CS-013-1G2/D29-WLD-5	Weld-in adapter, 29mm Ø
BAM0295	BAM AD-CS-013-1G2/D44-TRI-5	Pipe adapter, 44mm Ø
BAM0296	BAM AD-CS-013-1G2/D58-TRI-5	Pipe adapter, 56mm Ø