

## Binswitch

### Capacitive Proximity Sensor

#### APPLICATION

Detects level or plug situations in bulk granular solids or liquids.

Can also be used for misalignment monitoring on a conveyor or elevator.

#### METHOD OF OPERATION

The Binswitch Sensor detects level or plug situations for bulk granular solids or liquids in tanks, bins, or silos and can be used as a plug or choke detector in chutes, conveyors and elevator legs. Programmable features include time delay on material arriving or leaving, and failsafe relay settings for high and low levels. A two color LED shows material present or absent and flashes red or green to show the time delay is operating. The programmable sensor operates on 12-240 VAC/DC and gives a changeover relay contact output. The polycarbonate housing is corrosion and abrasion resistant, dust-tight, and waterproof.

#### FEATURES

- ▶ Universal Voltage
- ▶ Adjustable Sensitivity
- ▶ 25mm detection range
- ▶ Certified to ATEX & IECEx Class 2 Division 1 Groups E, F & G Approved
- ▶ IP67 Protection: Totally Sealed Construction

#### PART NUMBERS/ACCESSORIES

- ▶ BS12V10AI 2-Wire Binswitch High Level Fail Safe
- ▶ BS15V10AI 5-Wire Binswitch High Level Fail Safe
- ▶ BS22V10AI 2-Wire Binswitch Low Level Fail Safe
- ▶ BS25V10AI 5-Wire Binswitch Low Level Fail Safe
- ▶ BAS2 Binswitch Abrasion Shield
- ▶ BTAS1 Teflon Abrasion Shield End Cap
- ▶ TMP Top Mounting Plate
- ▶ SMP Side Mounting Plate
- ▶ BMPA 1-1/4" NPT Mount Plate Adaptor
- ▶ BAS Polyurethane Abrasion Shield 1-1/4" NPT
- ▶ BMPG36 Gland Mount
- ▶ KIT CAPA Adjustable level from 0,65 to 2,05 meters



**BS12V10AI or BS22V10AI**  
**BS15V10AI or BS25V10AI**



**ATEX-Approved**  
**Ex II 1D T100°C-IP 65-ZONE 20**

**IECEx**



**CLASS 2 Div. 1**  
**Groups E, F, & G**



**BAS2 Abrasion Shield**



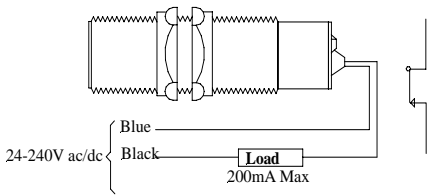
Please refer to instruction manual for correct installation.  
Information subject to change or correction. June 2006.

## TECHNICAL SPECIFICATIONS

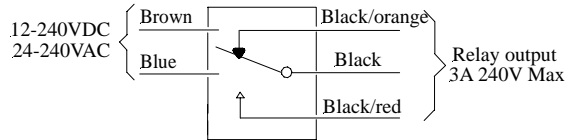
Type	BS12V10AI	BS22V10AI	BS15V10AI	BS25V10AI
Power Supply	24-240 Vac/dc		12-240 Vdc 24-240 Vac	
Approvals	ATEX EX II 1D T100°C (Zone 20) IECEx Zone 20 & CSA			
Contact	Normally Closed	Normally Open	Normally Closed	Normally Open
Max. Frequency	4 Hz			
Protection	IP 65			
Sensitivity	Detects up to 25 mm			
Volt drop	8 V max.			
Cable	2 wires, 5 m cable		5 wires, 5 m cable	
Calibration	Turn sensitivity adjustment screw; the silo must be empty for calibration			
Capacity	200 mA Max.		changeover relay rated at 3A 240Vac. Non inductive	
Ambiant Temperature	-15° to + 50°C			

### CONNEXIONS

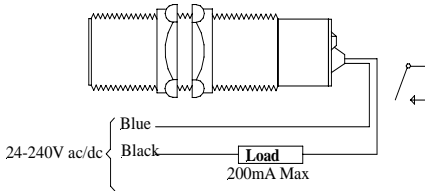
#### BS12V10AI



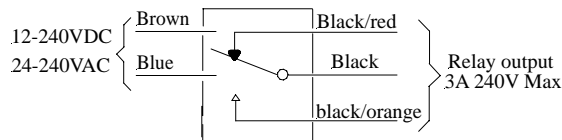
#### BS15V10AI



#### BS22V10AI



#### BS25V10AI

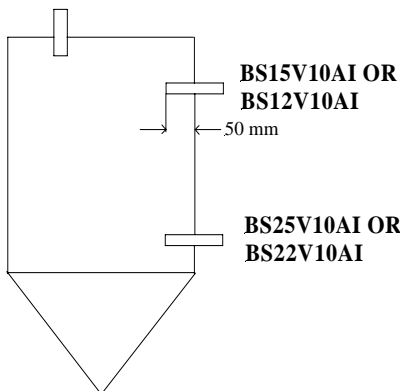


### KIT CAPA

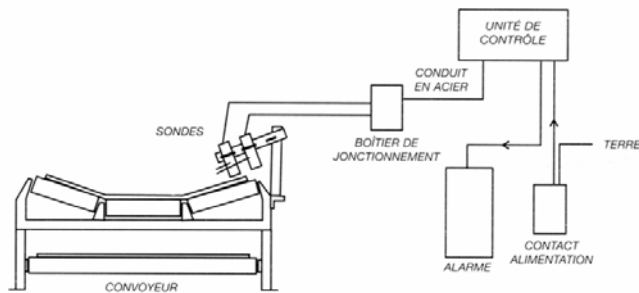


### Level or plug indicator

BS15V10AI OR  
BS12V10AI



### Alignment belt sensor



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