

## Binswitch

### Capacitance Point Level Switch

#### APPLICATION

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

#### 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

- ▶ **Totally Sealed Construction (Submersible)**
- ▶ **Applications for Level or Plug Sensing**
- ▶ **Adjustable Sensitivity**
- ▶ **CSA Class II Div 1 Groups E, F & G Approved**
- ▶ **IP67 Protection**

#### PART NUMBERS/ACCESSORIES

- ▶ BS1V3FC Standard Binswitch 12 VDC
- ▶ BS1V4FC Standard Binswitch 24 VDC
- ▶ BS1V6FC Standard Binswitch 110-240 VAC
- ▶ BP1V10FC Programmable Binswitch
- ▶ BS2V10FC 2-Wire Binswitch Low Level Fail Safe
- ▶ BS1V10FC 2-Wire Binswitch High Level Fail Safe
- ▶ SMP Mounting Plate
- ▶ A34NPT 3/4" NPT Conduit Adapter
- ▶ BMPA 1-1/4" NPT Mount
- ▶ BAS Abrasion Shield 1-1/4" NPT Mount
- ▶ BMPG36 Gland Mount
- ▶ BSM3 3" Clamp Mount



ATEX and IECEx Versions Available

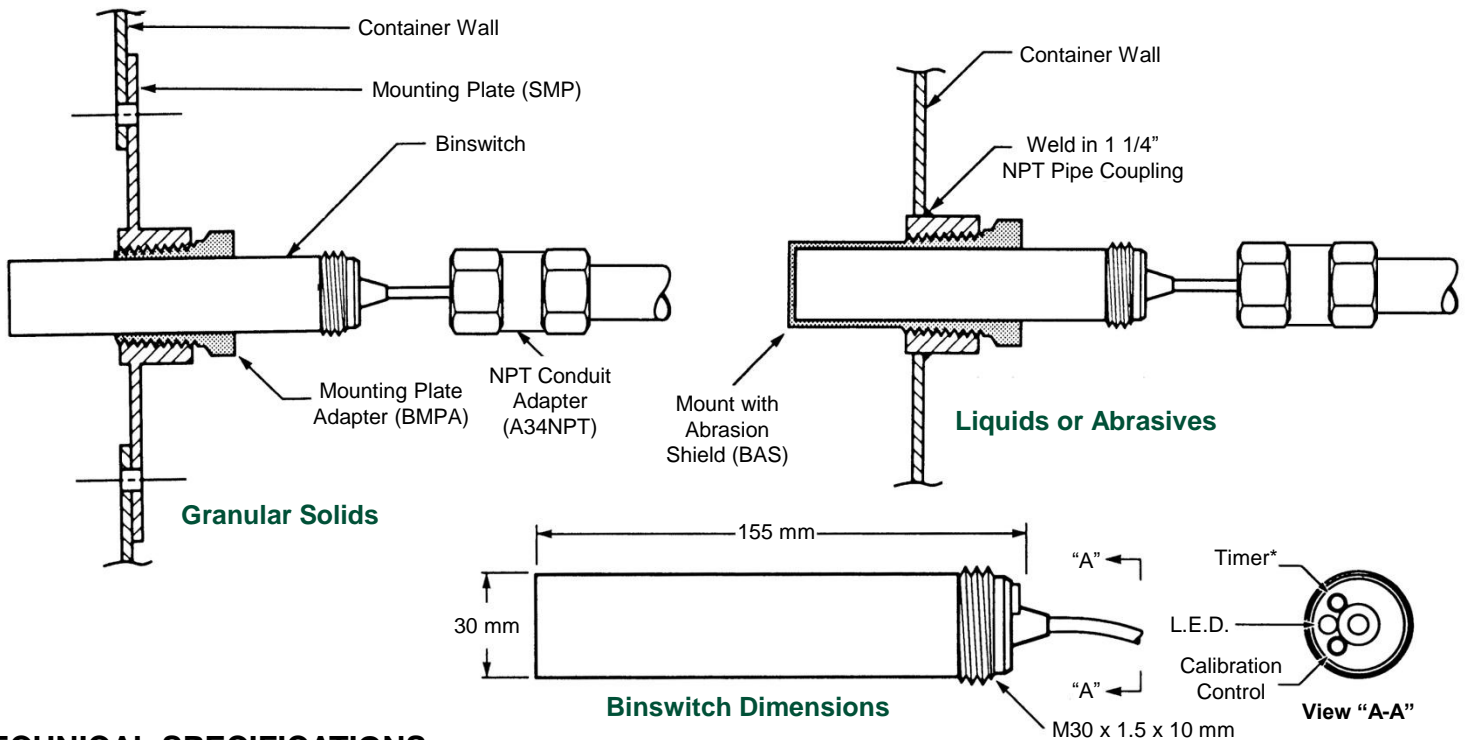


**BMPA**  
1-1/4" NPT Mount

**BAS**  
Abrasion Shield

# Binswitch

BETTER BY DESIGN



## TECHNICAL SPECIFICATIONS

Binswitch - Detects Level or Plug Situations in Bulk Granular Solids or Liquids

\* Timer on Programmable Model Only

	Standard Binswitch	Programmable Binswitch	2-Wire Binswitch
<b>Power Supply:</b>	110/240 VAC or 12 VDC, 24 VDC (specify when ordering)	12-240 VDC/24-240 VAC	12-240 VDC/24-240 VAC
<b>Supply Tolerance:</b>	-15% to +10%	N/A	N/A
<b>Power Consumption:</b>	30 mA	50 mA	40 mA
<b>Fuse:</b>	5 amp maximum	5 amp maximum	5 amp maximum
<b>Operating Temp:</b>	-22° F to +158° F	-22° F to +158° F	-22° F to +158° F
<b>Sensing Range:</b>	1" (25mm) typical	1" (25mm) typical	1" (25mm) typical
<b>Output:</b>	Voltage free relay 1 pole normally open 1 pole normally closed	Programmable voltage free relay 1 pole normally open 1 pole normally closed	Triac, 200 mA max current
<b>Contact Rating:</b>	3 amp, 240 VAC, non-inductive	3 amp, 240 VAC, non-inductive	200 mA max current
<b>Fail-to-Safe:</b>	High level fail-safe, relay de-energized material present/power failure	High or low level fail-safe, relay de-energized material present/power failure	High level fail-safe, relay de-energized material present/power failure
<b>Calibration:</b>	Screw potentiometer	Screw potentiometer	Screw potentiometer
<b>Timer:</b>	None	Programmable for "make", "break" (0-1 or 0-5 minutes)	None
<b>LED Display:</b>	Red: material absent	Red: material present Green: material absent Red Flashing: timing material arriving Green Flashing: timing material leaving	Red: material absent
<b>Cable Enclosure:</b>	6' (2m) 5 conductor cable Polycarbonate, threaded one end 30mm x 1.5mm	6' (2m) 5 conductor cable Polycarbonate, threaded one end 30mm x 1.5mm	6' (2m) 2 conductor cable Polycarbonate, threaded one end 30mm x 1.5mm
<b>Protection:</b>	IP67 – NEMA 6 and 6P Dust tight and water resistant	IP67 – NEMA 6 and 6P Dust tight and water resistant	IP67 – NEMA 6 and 6P Dust tight and water resistant
<b>Approval:</b>	Approved for Class 2 Div. 1 Groups E, F, & G (US and Canada)	Approved for Class 2 Div. 1 Groups E, F, & G (US and Canada)	Approved for Class 2 Div. 1 Groups E, F, & G (US and Canada)
<b>Weight:</b>	10.5 ounces	10.5 ounces	10.5 ounces

Detailed specification, wiring diagrams and installation/operating instructions available upon request.

Please refer to instruction manual for correct installation. Information subject to change or correction. Sept 2011