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4. LIMITATION OF DAMAGES

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INTRODUCTION
The BINSWITCH is a self contained, fully encapsulated capacitance sensor, housed in a 30mm dia. moulded body. It operates by detecting capacitance change when material is present.

INSTALLATION
The sensor may be mounted horizontally or vertically, using nuts provided or a suitable M30 x 1.5 fitting. The end of the sensor must be at least 20mm from the nearest metalwork. Alternatively the sensor will operate from the outside of non metallic vessels (max 6mm thickness). Ensure that the unit is wired as shown in the connections diagram & that wiring is kept separate from heavy current carrying cables. The supply polarity is not important. The load MUST have the same voltage rating as the supply being used & may be connected in either lead. DO NOT connect to supply without a suitable load.

SPECIFICATION
Supply ................................24 to 240V ac/dc.
Ambient Temp. .......... -40°C to +60°C.
Max. speed......................4Hz.
Output............................FET rated @ 200mA max.
Output State...........BS1V10FC - Not Covered-O/P On (8V drop max).
- Covered-O/P Off (1.6mA leakage max.)
BS2V10FC - Covered-O/P On (8V drop max.)
- Not Covered-O/P Off (1.6mA leakage max.)
Sensing Distance .........20mm Max. (Metal target).
Calibration ......................Potentiometer. Container to be empty when calibrating.
Cable ..........................Fitted 2 metres, 2 core.
Enclosure .......................Moulded polycarbonate.
Protection .......................IP65.
PLC Use .......................Some PLC’s may need an additional input load to operate with this device

COMMISSIONING - BS1V10FC
Check that connections are correct & apply power. A red LED indicator is provided on BS1V10FC, for Output ON. Commissioning consists of adjusting the sensitivity potentiometer clockwise until unit switches OFF (latched). Then turn potentiometer anticlockwise until unit switches ON, rotate potentiometer further anticlockwise to suit material being detected & operating range required. (Rotating control anticlockwise reduces sensitivity).

COMMISSIONING - BS2V10FC
Check that connections are correct & apply power. A red LED indicator is provided on BS2V10FC, for detecting/output ON. Commissioning consists of adjusting the sensitivity potentiometer clockwise until unit switches ON (latched). Then turn potentiometer anticlockwise until unit switches OFF, rotate potentiometer further anticlockwise to suit material being detected & operating range required. (Rotating control anticlockwise reduces sensitivity).

CONNECTIONS
Blue (200mA max)
Black
Load
24-240Vac/dc supply
Note: The load must have the same voltage rating as supply being used.

Three alternative mounting assemblies are available with Binswitch units. See Fig 1A, Fig 1B and Fig 1C.

FIG 1A
Cut and drill holes as shown into conveyor, silo etc. and attach mounting plate (SMP) using 6 M8 x 20 (5/16 X 3/4) bolts, nuts & washers or use existing level indicator mounting plate, slide Binswitch into position and secure by tightening mounting plate adaptor (MPA). Do not overtighten.

FIG 1B
Cut hole as shown into conveyor, silo etc. Attach mounting gland (PG36) using locknut. Slide Binswitch into position and secure using clamp. Do not overtighten.

FIG 1C
Cut and drill holes as shown into conveyor, silo etc. and attach mounting plate (SMP) using 6 M8 x 20 (5/16 X 3/4) bolts, nuts & washers or use existing level indicator mounting plate, slide Binswitch into position and secure by tightening Binswitch abrasion shield (BAS). Do not overtighten.