

# CONVEYOR BELT MISALIGNMENT DEVICE

UV STABLE, IMPACT MODIFIED, FLAME RETARDANT,  
STATIC DISSIPATIVE PC/PBT ENCLOSURE.



Illustration only, actual product may differ.  
Photograph displays vertical roller arm fitted.  
Order as separate item.

**Tested to MDG 3608  
7.2.2.1**

**CE Conformity**

The Safe-T-Drift Ex Static Dissipative heavy duty Protective Stop Control Belt Misalignment Device, is made for applications requiring a unit which caters for high speed belt applications in Ex zones, having a cam driven drift alarm micro switch with direct opening action and direct opening action trip micro switch. The cams are individually adjustable for finer alarm and trip points.

The device may be ordered in either the standard right handed shaft operation or left handed shaft.

It's unique dual direction sprung cam operator system coupled with the IP66/69K high speed roller ensures long, trouble free operation, in the most severe environmental situations.

## DEVICE FEATURES

- » Safe-T-Drift SD is a simple device (IEC/AS 60079.11.2011) and has a surface resistivity well below the 1 GΩ allowed in these standards. Used with an intrinsically safe circuit, this product can be used in Ex Zones.
- » UV stable, impact modified, flame retardant, V0 static dissipative PC/PBT enclosure.
- » All external fixings etc. are 316 Stainless Steel.
- » Operating shaft bearings are UV stable, flame retardant, 15% GF nylon 6, for long maintenance free operation.
- » Operating shaft sealing via a double lip oil seal, with external dust protecting boot.
- » 90° full movement of operating arm with easily adjustable switching points from 5° to 75°.
- » Standard unit has both **Alarm & Trip** IP66/67K S.P.D.T Change-over Safety Micro Switches with Direct Opening Action (IEC 60947-5-1 Annex K) in contact element form C tested and passed too IEC 60947-5-1.
- » Micro switches pre wired to terminals.

## ROLLER ARMS: (NOTE: ORDERED SEPARATELY)

- » Solid or sprung shaft roller mounting arms, available either vertical or horizontal.
- » Rollers are IP66/69K 316 Polished Stainless Steel and available in either 50mm diameter or 25mm diameter with high speed sealed bearings.
- » Arms are fully adjustable through 360°.



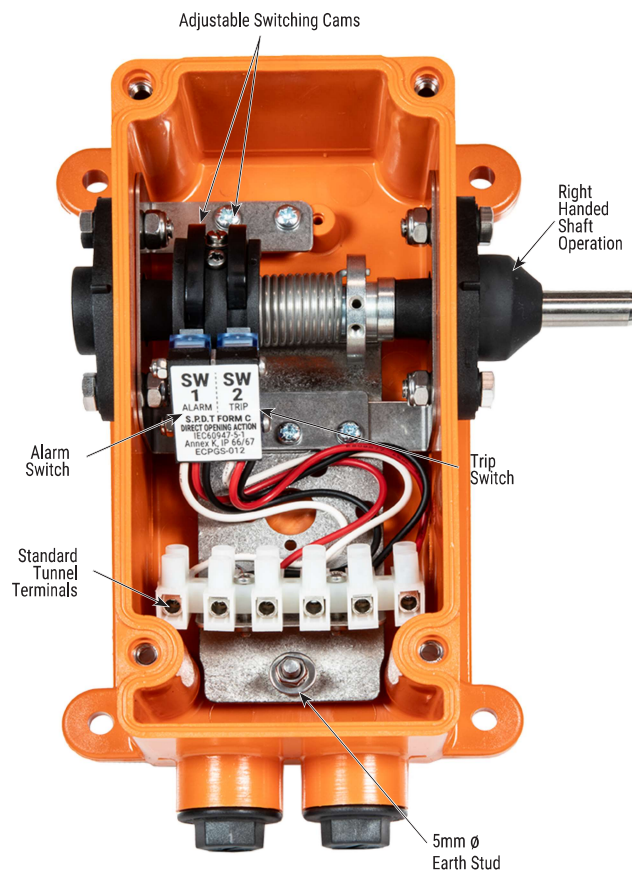
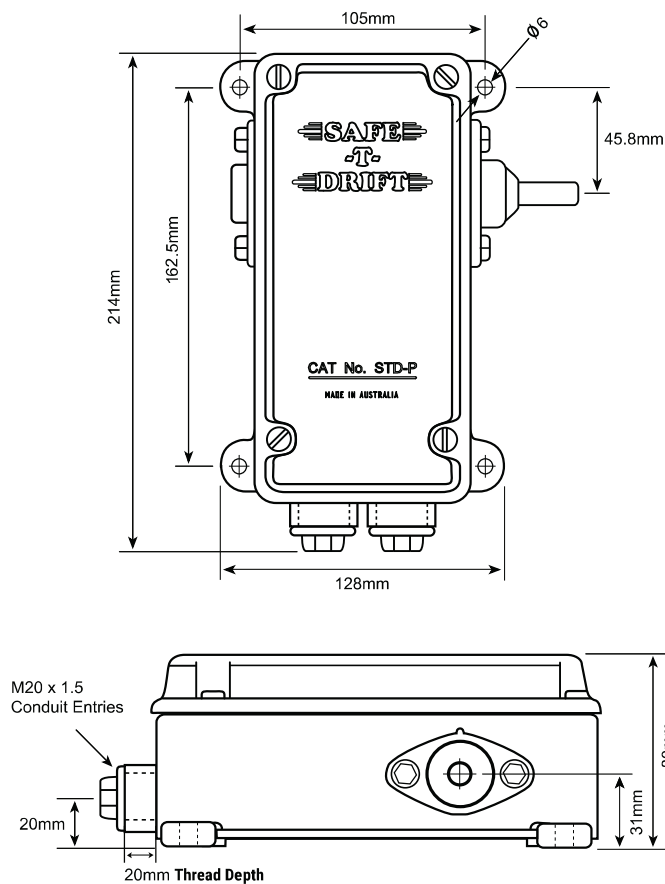
FOR MORE INFORMATION

[www.safe-t-products.com.au](http://www.safe-t-products.com.au)



## DIMENSIONS

### STD-SD DEVICE SHOWN



## STICKERS

**SAFE-T-DRIFT** SW1/SW2 Form C, IP66/67

WHITE	BLACK	RED	WHITE	BLACK	RED
14 (NO)	11 (C)	12 (NC)	24 (NO)	21 (C)	22 (NC)
1.	2.	3.	4.	5.	6.

Term No. 12, 14, 22, 24

Tested to IEC 60947-5-1 2016 AC-15 250VAC /1.5A DC-13 60V DC /0.5A

**Specifications (short-circuit with standability)**

Rated condition short-circuit current	1 000 A
Short-circuit protective device	Fuse 6 A 690V gG (IEC 60269-1&2)

ECPGS-004

**SAFE-T-DRIFT** SW3/SW4 Form C, IP66/67

WHITE	BLACK	RED	WHITE	BLACK	RED
34 (NO)	31 (C)	32 (NC)	44 (NO)	41 (C)	42 (NC)
7.	8.	9.	10.	11.	12.

Term No. 32, 34, 42, 44

Tested to IEC 60947-5-1 2016 AC-15 250VAC /1.5A DC-13 60VDC /0.5A

**Specifications (short-circuit with standability)**

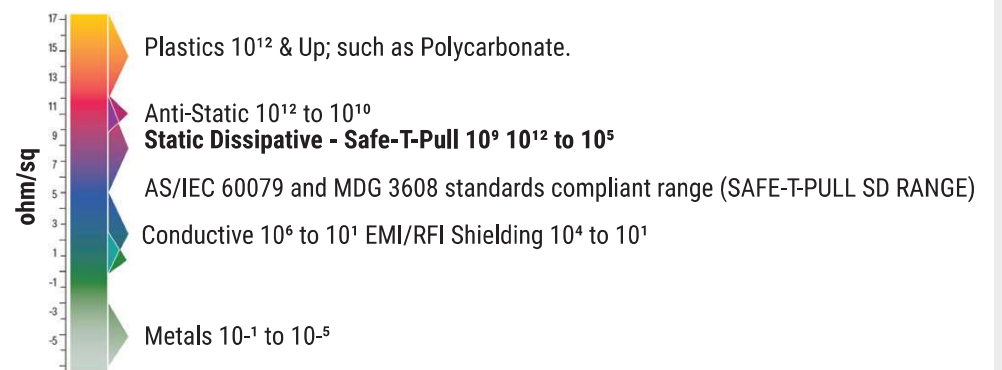
Rated condition short-circuit current	1 000 A
Short-circuit protective device	Fuse 6 A 690V gG (IEC 60269-1&2)

ECPGS-005

## ENCLOSURE SPECIFICATIONS

- » High Impact PC/PBT Non Corrosive Material.
- » UV Stabilised.
- » Flame retarded ASTM.UL94.V-0 (1.5mm)
- » Dissipative IE9 ohm Surface Resistance.
- » Resists splash and spillage of most hydrocarbon solvents, mild acids and strong alkali.

## SURFACE RESISTIVITY



## ELECTRICAL SPECIFICATIONS

### IP 67 Safety Micro Switch with Direct Opening Action Specifications

IEC 60947-5-1 Annex K classification	<input type="checkbox"/> Type 1	<input checked="" type="checkbox"/> Type 2 Direct Opening
Change-over contact element	<input checked="" type="checkbox"/> C	<input type="checkbox"/> Za <input type="checkbox"/> Zb
Contact material	Ag-Ni	
Utilization category	AC-15	DC-13
Operational voltage	230 V	60 V
Operational current	1,5 A	0.5 A
Frequency	50/60 Hz	-----
Number of electrical cycles	6050 (6 min-1)	
Number of mechanical cycles	6050 (6 min-1)	
Conventional free air thermal current	10 A	
Conventional enclosed thermal current	-----	
Operating Temperature	-35° C No Icing	+80° C

### Specifications (short-circuit with standability)

Rated conditional short-circuit current	3 00 A	1 000 A
Short circuit protective device	Fuse 6 A gG (IEC 60269-2)	Fuse 6 A gR (IEC 60269-4)

## ORDERING DETAILS

### NOTE: Order Device and Roller Arm

DEVICE TYPE	PART NUMBER
Single Direction Switching (ECGS-004)	STD-SD
Dual Direction Switching (ECGS-004)+(ECGS-005)	STD-SD-D
Single Direction Switching - DIN Rail Terminals Fitted (ECGS-004)	STD-SD-K
Dual Direction Switching - DIN Rail Terminals Fitted (ECGS-004)+(ECGS-005)	STD-SD-D-K
Horizontal Roller Arm	STD-HA
Horizontal Sprung Roller Arm	STD-HASR
Vertical Roller Arm	STD-VA
Vertical Sprung Roller Arm	STD-VASR

**Other variations available: Contact your distributor**