



BDS1 Belt Drift Switch

Monitor and prevent conveyor misalignment

Full feature, fully integrated drift switch

Monitor the location of a conveyor belt with the Type BDS1 Belt Drift Switch. Our rugged new in-house design installs easily and provides superior integration with Austdac conveyor safety systems. Prevent damage to the conveyor, safety risks, and loss of productivity.

The BDS1 signals early detection of a belt becoming misaligned. Two individual SPDT positive opening switches are included, so it can warn you when the misalignment is at two points. This allows you to set a warning position and a trip position.

The roller arm actuator is user adjustable. It activates switches at 15 degrees and 25 degrees. The roller arm and roller are constructed of stainless steel with long life bearings. Choose from several available lengths.

Features

- Snap action, self-cleaning SPDT switches for high reliability
- Volt-free contacts connect to any digital control system
- Mounting for Austdac SILBUS or HubBus transmitters
- Includes two 20mm gland entries for cable access
- Constructed of UV-resistant, antistatic polycarbonate, UL94 HB flammability rated
- Wide -50°C to +60°C operating range
- IP66

Compliance and Certification

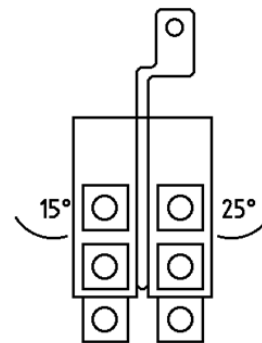
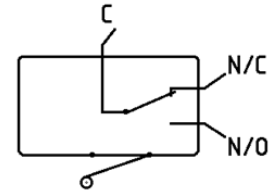
- Compliant with IEC 60947-1, IEC 60947-5-1 Annex K and UL508
- UL Listed (pending)
- CSA Listed (pending)
- As an Ex i simple apparatus, IECEx and ATEX certification is not required



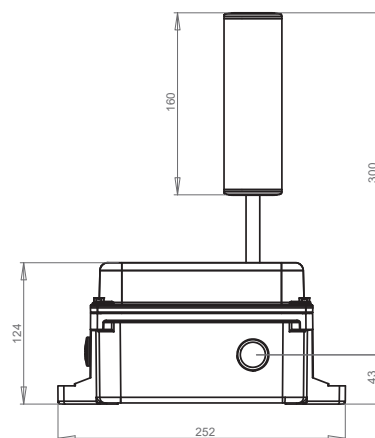
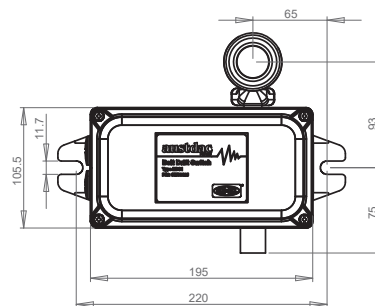
General	
Name	Belt Drift Switch
Type	BDS1
Operating temperature <i>Note: Equipment placed inside may reduce overall system operating temperature range</i>	-50°C to +60°C -58°F to +140°F
Storage temperature	-50°C to +80°C -58°F to +176°F
Operating relative humidity range	10% to 90% non-condensing
Size H x W x D <i>(Not including roller arm)</i>	252 x 105 x 124 mm 9.8 x 4.1 x 4.7 inches
Ingress protection	IP66
Electrical connections	Screw terminals
Maximum conductor size	2.5 mm ² 0.10 inches ²
Housing material	Polycarbonate UL94 HB
Housing colour	Safety yellow
Actuator type	Roller arm
Roller length	150 mm 5.9 inches
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Optional roller arm lengths	350mm and 400mm Total Length 13.8 and 15.7 inches
Roller diameter	50 mm 2.0 inches
Fixing fasteners	2 x M8 or M10 bolts
Fixing centres	230 mm 9.05 inches
Fixing slots	20 x 11 mm 0.78 x 0.43 inches
Gland / cable entries	Two down facing
Gland size	20mm
Mass	2.4 kg 5.3 pounds

Switch Contacts	
Input type	SPDT with positive opening operation and self cleaning contacts in compliance with IEC 60947-5-1, Annex K
Number of switches	2
Contact material	Silver
Operations	10 ⁷ mechanical
Maximum switching voltage UL504	300Vac
Maximum switching current UL504	6A

Terminations and Connection Diagram



Dimensions



BDS1 Belt Drift Switch

Ordering Details

Description	Order Code
Belt Drift Switch Type BDS1 , 150mm Roller, 300mm Total Length	SW0065J
Accessory Roller Arm for BDS1, 250mm Roller, 350mm Total Length	SW0065K
Accessory Roller Arm for BDS1, 250mm Roller, 400mm Total Length	SW0065L

**Find out more. Call your Austdac Business Development Manager
for a demo or to request a quote.**

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