
Belt Drift Switch

Type BDS1

- ✓ Roller arm actuator
- ✓ IP66
- ✓ 2 x M20 Gland Entries
- ✓ Two individual positive opening SPDT switches
- ✓ Wide operating temperature range



Description

The Belt Drift Switch Type BDS1 monitors the location of a conveyor belt and signals when the conveyor belt is misaligned. 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 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 BDS1 roller arm position can be adjusted by the user. The BDS1 roller arm activates switches at 15 degrees and 25 degrees. The roller arm and roller are manufactured using stainless steel with long life bearings.

Certification

The BDS1 is UL* and CSA* Listed (*Pending). IECEx and ATEX certification is not required as the BDS1 is treated as Ex i simple apparatus.

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 operating temperature range, -50°C to +60°C
- IP66

Specifications

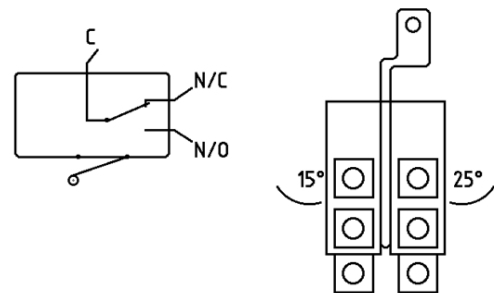
General	
Name	Belt Drift Switch
Type	BDS1
Operating temperature <i>Note: Equipment placed inside may reduce overall system operating temperature range</i>	-50°C to +60°C -58°F to +140°F
Storage temperature	-50°C to +80°C -58°F to +176°F
Operating relative humidity range	10% to 90% non-condensing
Size 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
Roller arm length	150 mm 5.9 inches
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

Ordering Details

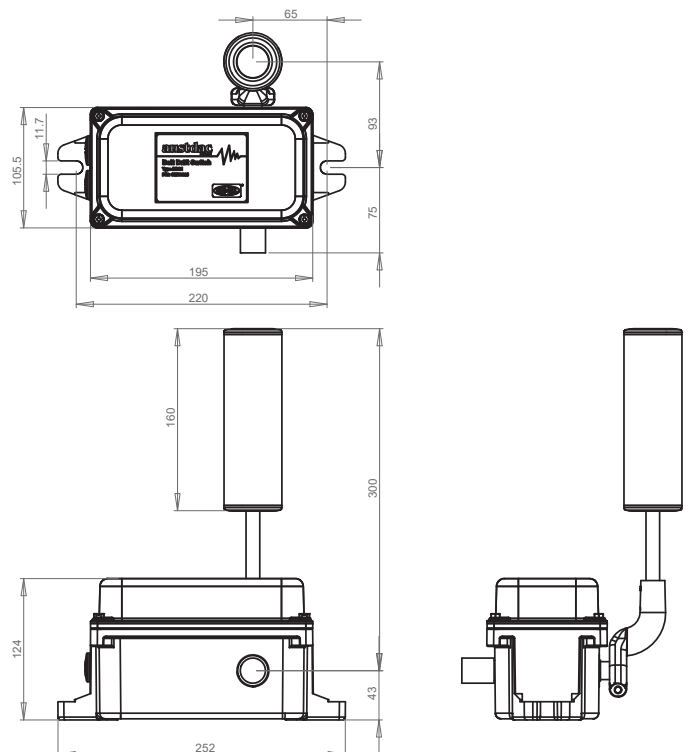
Description	Order Code
Belt Drift Switch Type BDS1 , 150mm Roller, 300mm Total Length	SW0065J
Accessory Roller Arm for BDS1, 250mm Roller, 350mm Total Length	SW0065K
Accessory Roller Arm for BDS1, 250mm Roller, 400mm Total Length	SW0065L

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



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