

Model NSR66-BD3 Belt Damage Detector

Specifications

The model NSR66-BD3 Belt Damage Detector switches are conveyor safety accessories designed to interlock with conveyor shut down systems in the event of a damaged belt. This simple system will shut down the conveyor belt and protect you from costly repairs and downtime due to belt damage. The micro switch used in the products is approved by VDE. All products are produced as accordance with CE standards. Also It meets EAC standards for the Russian market. The Model NSR66-BD3 is designed to shutdown a conveyor system, in the event of belt damage. It warns supervisory personnel of impending belt failures due to rips, punctures, splice failures and sharp objects protruding through the belt carcass. Belt damage detectors are mounted in pairs positioned on both sides of the moving conveyor belt.

The units are connected by two spans of aircraft cable. One end of the cable mounts permanently to a support bracket and the other connects to a spring loaded ball located on the detector. The aircraft cables loop underneath the belt from each side crossing at the midpoint. A belt problem is detected when an object or piece of damaged belt hangs below the belt surface and sweeps away one or both cables. As the cable is detached, it pulls a spring loaded ball out of a socket, causing two micro switches to trip. One for annunciation to a PLC or alarm system and the other to shut down the conveyor belt lessening the potential damage and downtime that will be caused without this type of detection.



Technical Specifications

- Enclosure : Aluminum Casting NEMA-4
- Micro Switch Values : 15A @ 115-230 VAC, 30 VDC
- Output Signal : (2) SPDT shutdown (Alarm,Closure)
- Cable Entry : 2xM25
- Movement Angle : 15° and 25°
- Temperature Rating : -42° - +80 °C
- Protection Class : IP67
- Warranty Period : 36 Months

Option

- Indicating Light
- Manual Lock Out
- Adjustable Angle

Approvals for Safety

Electrical Safety	IEC 60204-1: 2005-10
	IEC 60947-1: 2004-03
Mechanical Safety	IEC 60204-1: 2005-10
Functional Safety	IEC 60204-1: 2005-10
Outdoor/Noise/Vibration Certificate	IEC 60529: 2001-02
	CE

Applications

Cranes, Shaveles and Drag Lines	Ship Loading / Unloading Systems
Conventional Conveyor Belts	Stockpile / Reclaim Systems
Piston Conveyors	Crawler Conveyors
Shuttle Conveyors	Heavy Duty Applications

Technical Drawing

