

Model TPR22-PS-EX Conveyor Belt Position Switch

Specifications

The Model TPR22-PS-EX Belt misalignment switches are conveyor safety accessories designed to alarm and/or shut down conveyor systems in the event of a conveyor belt misalignment. The heavy duty rugged design makes them suitable for most industrial applications. Body structure is Bmc composite material and it is resistant to corrosion. It has Ex certificate, which is resistant to explosive gas and environment. Shaft mechanisms are made of stainless steel. Handle mechanism is made of stainless steel or teflon material. Conveyor Belt Position Switches, is used to weight difference of the lower part of the conveyor belts and track the position of the belt. It is mounted to be attached to the chassis. Also It reduces maintenance costs. System decreases downtime and maintenance

costs and time can be saved. The lever moves from its current position when more force is applied to the lever mechanism, depending on the area in which the products are used. The first alarm activates switches at 35 ° Thus, the first alarm activates the switches. Conveyors are stopped The alarm contact structure is available on request. It can be used with only one contact mechanism without using alarm contact. 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 TPR22-PS-EX series products do not require any maintenance.

Technical Specifications

- Region : Ex Zone 11 and 21
- Enclosure : Bmc Hard Composite
- Micro Switch Values : 400VAC 6A / 230VAC 8A / 24VDC 10A
- Output Signal : (1) SPDT shutdown, alarm can be added upon request.
- Cable Entry : 2xM25
- Connector : M25 Ex Gland
- Temperature Rating : -30°C - +85°C
- Movement Angle : 25° **Optional** : 15° and 35°
- Contact Status : Snap - Action
- Protection Class : IP68
- Enclosure Color : Black (RAL 7020)
- Weight : 2,7 Kg
- Mounting Structure : It is suitable for double-sided use.

Options

- Bus Security Interface
- Adjustable Angle
- Casting Body
- Mounting Feets
- Arm Length and Diameter
- Signal lamp

Security Approvals

Electrical Security	EN60947
Mechanical Security	EN 60204
Outdoor Security	EN 60529
Current Certificate	
Russia Market	EAC
Micro Switch	VDE
Explosive Environment	EX - Zone 22 / Zone 21

Ex Definition

- II 2G Ex db IIC T6/T5 Gb,
- II 2D Ex tb IIIC
- T80 °C/T95 °C Db
- IECEX Ex db IIC T6/T5 Gb,
- Ex tb IIIC T80 °C/T95 °C Db

Model Specifications List

Model	Alarm			Stop			Reset
	NC	NO	Angle	NC	NO	Angle	
TPR22-PS-EX			15°	1	1	25°	Available
TPR22-PS-A01-EX			15°	1	1	25°	**
TPR22-PS-A11-EX	1	1	15°	1	1	35°	Available
TPR22-PS-A11B-EX	1	1	15°	1	1	35°	**
TPR22-PS-22-EX			15°	2	2	25°	Available
TPR22-PS-A02-EX			15°	2	2	25°	**
TPR22-PS-A22-EX			15°	2	2	35°	Available
TPR22-PS-A22B-EX			15°	2	2	35°	**
TPR22-PS-33-EX			15°	3	3	25°	Available
TPR22-PS-A03-EX			15°	3	3	25°	**
TPR22-PS-A33-EX	1	1	15°	2	2	35°	Available
TPR22-PS-A33B-EX	1	1	15°	2	2	35°	**

Spare Parts Accessories List

Model	Features
KB-826-EX	1NO+1NC Switch
KB-826-2-EX	2NO+2NC Switch
KB-826-3-EX	3NO+3NC Switch
KB-R-01-EX	M25x1,5 Cable Gland
KB-KT-01-EX	M25 Blind Plug
KB-4-KN-EX	4 Pin Connector
BA-11	Connection Mounting Foot
KB-TGV-01-EX	Body Cover
TSR-42-PS-EX	Teflon/Aluminum Arm
KB-PM-EX	Reset Lever

Please review the manual file for product use. Check the KBT Accessory catalog for mounting the products on the belt.

