

## Model TPR55-BM Conveyor Belt Alingment Switch

### Specifications

It is designed to alert and turn off the conveyor system in case of misalignment of the conveyor belt. Its resistance to heavy conditions makes it reliable in the long term and suitable for most industrial applications. Enclosure structure is resistant to corrosion by being covered with BMC composite. Shaft and lever shaft and lever mechanisms are made of stainless steel. The handle mechanism has a stainless steel cylindrical structure and works with two bearings inside. TPR55-BM Arm belt slide switches (limit switches) are mounted on both sides of the conveyor belt to be connected to the chassis. The belt sliding switch, also called the limit switch, is designed to prevent damage to the belts and equipment due to the misalignment of the conveyor belt. Limit switches and specific limit switches save time by reducing system downtime and maintenance costs.

The cylinder arm of the switch is placed approximately 15 cm from the normal belt position. When the belt starts to slide, it comes into contact with the roller arm. As a result of the application of more force on the band arm, the cylinder arm can move from its current position and can be adjusted at two different angles up to the maximum movement angle at 70°. All products and limit switches are manufactured in accordance with CE standards and meet EAC standards for the Russian market. TPR55-BM series products do not require any maintenance. Please check manual file for product usage.

### Technical Specifications

- Enclosure : BMC Composite
- Cable Entry : Pg13,5
- Temperature Degree : -40°C - +90°C
- Angle of Contact : 15° and 18°
- Enclosure Color : Red (RAL 3020)
- Weight : 1,155 Kg
- Montage Structure : Mounting of body
- Product Specific Application : Conveyor belt misalignment tracking
- Contact Operation : Snap-Action
- Minimum Opening Torque : 1 N.m
- Minimum Operating Speed : 0,01
- Number of Steps : 2 m/min
- Maximum Movement Angle : -70° / 70°
- Mechanical Durability : 300000 move
- Warranty : 36 month



### Electrical Structure

- Contact Insulation Form : Za
- Contact Code Display : AC-15 (Ue = 240 V), Ie = 3 A approve  
DC-13 (Ue = 250 V), Ie = 0,27 A approve
- [Ui] Nominal Insulation Voltage : 500 V
- Maximum Resistance Between Terminals : 25 MOhm
- [Uimp] Nominal Impact Withstand Voltage : 6 kV
- Short Circuit Protection: 10 A
- Electrical Durability : 5000000 motion

### Model Specifications List

Model	Alarm			Stop			Reset
	NC	NO	Angle	NC	NO	Angle	
TPR55-BM	1	1	15°	1	1	18°	**

### Options

- Adjustable Angle
- Arm Length and Diameter

### Environment

- Impact Resistance : 18 ms for 30 gn
- Protection Class : IP65
- Vibration Resistance : 9 gn (f= 10...500 Hz)

### Safety Approvals

- Electrical Safety EN 60947
- Mechanical Safety EN 60204
- Outdoor Security EN 60529
- Current Certificate **CE**
- Russian Market EAC

### Technical Drawing

