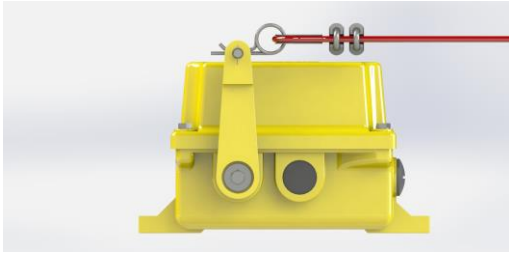


# LHPEw-10/2-BSR-SG

## CONVEYOR BELT RIP DETECTING MOUNTING



**Principle:** A steel rope, mounted perpendicular to the movement direction of the belt, is fixed on one side to the structure, the other end actuates the switch.

The actuation lever of this switch can be rotated free between 2 limit positions, left and right. In both limit positions the contacts are tripped, in the intermediate area the contacts are not tripped. This lever is pushed by an internal spring into its left limit position. From this left limit position the lever can be rotated against the force of the mentioned internal spring into the intermediate area and further into the right limit position.

A steel cord, in right angle to the movement direction of the belt, should be mounted via its spring cotter (spring pin) to the bolt of the actuation lever. If now the rope will be touched by the damaged belt, the rope will pull the lever. It will happen either

1) the spring cotter will be pulled off the bolt, now the lever will be free and will rotate to the left limit position, where the contacts will be tripped.

---or---

2) the spring cotter will rest on the bolt and the lever will rotate to the right position, where the same contacts will be tripped. If on half way the spring cotter will jump off the bolt, then look to >>>1).

**Mounting:** The steel rope should be mounted in right angle to the movement direction of the conveyor. One end of this steel rope should be mounted to the turnbuckle and this turnbuckle on its other end to a fixed point on the structure. The other end of the steel rope is fastened to the spring cotter. Mount this spring cotter above the bolt of the actuation lever. Shorten the pull cord in such a way that the lever will stand approximately in middle position (right angle to the enclosure + / - 5°). That's all.

**Maintenance:** This switch needs no maintenance works.

### Technical Data

According to standards	EN 60947			
Approval of micro switches	VDE, CCC			
Approval	GOST R			
I <sub>th</sub> (thermal current)	10A			
Rating	Silver: 400VAC 6A / 230VAC 8A / 24VDC 10A / 80VDC 3 A			
Minimum Current	Gold: 1mA bei 6VDC			
Utilization Category	Silver: AC-15 230V 1A DC-13 110V 0,5A			
	Gold: AC-12 230V 250mA DC-12 110V 250mA			
U <sub>i</sub> Rated Insulation Voltage	400V			
U <sub>imp</sub> Rated Impulse	4kV			
Terminals	Screw, each terminal clamp 1 or 2 cables, each max 2,5mm <sup>2</sup>			
Protection	IP67 acc. EN 60529, at least IK08 acc. EN 66262			
Cable Entries	2 x M25-threaded, both EXW closed by IP67-protecting plugs			
Mounting position	free			
Ambient operation temperature	- 40°C up to + 85°C (-55°C on request)			