Belt rip detector LHPEw-xx/x-BSR-SG LHMEw-xx/x-BSR-SG



- Up to 4 Contacts
- Silver and Gold Contacts
- Direct opening, positive drive ightarrow
- Malfunctions unlikely by long actuation travel
- Impact resistant BMC enclosure optional cast iron
- IP67
- $\langle \widehat{\mathbf{x}} \rangle$ optional
- Optional including



Options

- Dupline Safety Bus or Fieldbus by Carlo Gavazzi
- Signalling light
- Explosion protection (ATEX) separate leaflet

The design of these pull cord switches considerates heavy duty service. Enclosures made of most stable, impact resistant, thick walled glass fibre-reinforced polyester (BMC) or optional of cast iron are the best guarantors for long years of reliable service. Both types are at least IP67-protected (water- and dust proof).

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Belt rip detectors of this type are designed to monitor the conveyor belt and detect breaking or fraying of the conveyor belt. They have two possible limit positions. The lever can be moved freely between these limit positions. In the left limit position, the electrical contacts are actuated. In the right limit position, the lever encounters an internal resistance. In the area in between, the contacts are in their neutral position. The lever is turned to its left end position by an internal spring (Fig.1). From this left end position, the lever can be turned to the right end position against the force of the internal spring. A rope, transversely under the conveyor belt, is attached to the pin of the lever with a spring cotter (Fig.2). If the rope is now pulled along by a piece of conveyor belt, either

- 1) the spring cotter is immediately torn from the shift lever and the shift lever immediately jumps to its left end position, here the contacts are actuated. ---or ---
- 2) the spring cotter will rest on the bolt of the shift lever and the shift lever hits the internal resistance in its right end position. At this point at the latest, the spring cotter is torn from the bolt of the shift lever and the following occurs: >>> see 1).

These switches will be equipped with up to 2 micro switches. Each micro switch incorporates either 1NC plus 1NO contact or alternatively 2NC's. The contacts are made of silver, a gold coating is optional. Each micro switch is certified by VDE and CCC and is bearing their signs:



The switches are also approved to bear the Eurasian EAC sign.

Guarantors for an extended, reliable life time are most important details like sealing rings protecting the shafts, an extra hard rubber gasket in the lid, shafts and screws made of stainless steel.

DITTELBACH UND KERZLER GmbH & Co. KG Talstrasse 27 D-35394 Giessen Tel.: +49 641 97224-0 Web: www.DUK.eu E-mail: info@DUK.eu

Selection table

| Switch type | Cont NC | t acts NO | Surface |
|--|--------------------------------------|---|--|
| BMC housing | NC | NU | |
| LHPEw-10/1-BSR-SG LHPEw-18/1-BSR-SG LHPEw-10/2-BSR-SG LHPEw-18/2-BSR-SG LHPEw-18/1 + 10/1-BSR-SG LHPEw-13/1-BSR-SG LHPEw-19/1-BSR-SG LHPEw-13/2-BSR-SG LHPEw-19/2-BSR-SG Cast iron enclosure | 1 2 4 3 1 2 2 4 | 1 - 2 - 1 1 - 2 - | Silver Silver Silver Silver Gold Gold Gold Gold |
| LHMEw-10/1-BSR-SG LHMEw-18/1-BSR-SG LHMEw-10/2-BSR-SG LHMEw-18/2-BSR-SG LHMEw-18/1 + 10/1-BSR-SG LHMEw-13/1-BSR-SG LHMEw-19/1-BSR-SG LHMEw-13/2-BSR-SG LHMEw-19/2-BSR-SG | 1 2 4 3 1 2 2 4 | 1 - - 1 1 - 2 - | Silver Silver Silver Silver Gold Gold Gold Gold |

Pull Cord Switch LHPEw-xx/x-BSx LHMEw-xx/x-BSx

Technical Data

| | ietiilitui Pulu | | | |
|---|--|---|--|--|
| | According to standards | EN_60 947-5-1 / EN60204 | | |
| | Approval of micro switches | Reg.Nr.: 6671, 6827, 40026213 € | | |
| | Aproval | | | |
| | I _{th} (thermical current) | 10A | | |
| | Rating | Silver: 400VAC 6A / 230VAC 8A / 24VDC 10A / 80VDC 3A | | |
| | Minimum Current | Gold: 1mA bei 6VDC | | |
| | Utilization Category | Silber: AC-15 230V 1A DC-13 110V 0,5A Gold: AC-12 230V 250mA DC-12 110V 250mA | | |
| | U; Rated Insulation Voltage | 400V | | |
| | U _{imp} Rated Impulse | 4kV | | |
| | | Screw, each terminal clamp 1 or 2 cables, each max 2,5mm ² | | |
| | | IP67 acc. EN 60529, at least IK08 acc. EN 66262 | | |
| | | 2 x M25-threaded, EXW closed by IP67-protecting plugs | | |
| | Housing Material | Fibreglass Reinforced Polyester BMC (types LHP) | | |
| | u u u | Cast Iron (LHM) | | |
| | Colours | yellow RAL 1003 optional red RAL 3000 | | |
| | | Coating Cast iron 2 layer 2-component PU / BMC none | | |
| | Weight / Mass approx. 2.2 kg (LHP), 6 kg (LHM) | | | |
| | Mounting position | free | | |
| | Ambient operation temperature | - 40°C up to +85°C (-55°C on request) | | |
| | | | | |
| Basic values for calculation of SIL or PL according EN 13849 and IEC 61508: | | | | |
| | | 80000 cycles | | |
| | -10 -10" | | | |
| | | | | |

