



## Conveyor Belt Swing Switch LHPw-10/2-L50



### Use:

Conveyor belt swing switches are deployed at belt conveyers to minimize the danger of damage or destruction of the belt when it swings aside from its trajectory.

### Description:

The LHPw-10/2-L50 switches are intended for being deployed along a conveyor belt. They are distributed in pairs on the right and left side. In the event of the belt swinging from its presumed trajectory, the belt edge affects a cylindrical lever of the switch and pushes against the self-aligning force of an inside spring.

At the swing angle of 25° contacts are switched over and the belt is automatically blocked. It prevents self-switching on when the swing decreases. The maximum swing of the cylindrical lever is 75°. As soon as the swing decreases, the blockage can only be released manually directly on the switch (a blue control switch). In this way the switch contacts are switched on again.

This type of a switch meets the CSN EN ISO 13850 requirement for its connection in emergency stop circuits locking if activated by the belt against restart. The switch emergency stop is not performed manually (it is not intended for it) but by the conveyor belt.

The contacts of A and B switches in this series (without "E" economy in the name) are fitted with synchronisation of disconnecting and the lever angle between the disconnection of individual contacts is 0°. We recommend the synchronisation in connections with a safety module. Every module of A and B contacts is equipped with a disconnecting and a connecting contact with forced guiding.

The switch cabinet is made of colour glass-fibre reinforced polyester.

Small cylinders with ball bearings of the L50 switch swing sensing lever are made of VA stainless steel. The L50 lever is attached to the axis of the switch in the required angle and tightened with a tie-bolt. An advantage of free setting the lever angle is that the switch can be attached in other positions according to the conveyor structure layout. A disadvantage is that the lever attachment to the switch axis must be more frequently checked, whether it has not loosen thus losing its function.

The effect of the sensing lever to the switch axis is only guaranteed for type "L" (LHPw-10/2-L). For this type the lever angle is set in the production. To align the correct lever angle toward the belt, the whole switch must be turned and fixed at the position.

### Recommended distribution:

Swing switches are usually placed at the end of a conveyor behind the hopper and in front of the transfer point. For long conveyors above 30 m these switches should also be located in the middle of the trajectory. Switches are also suitable for inclined conveyers and conveyers with a movable hopper, e.g. propellers, S carriages etc. For impact skid platforms of belt conveyers swing switches must be used although the conveyor is equipped with a mechanical alignment of the belt trajectory.

### Technical parameters:

Meets standards	ČSN EN 60947 ČSN EN 60204 ČSN EN 60529 ČSN EN ISO 13850 ČSN EN 620
Switching angle	25°
Maximum lever swinging	75°
Cylindrical lever	VA steel, two ball bearings
Weight	2.9 kg
Cable input	2 holes for M25x1.5 with a blank flange
Cabinet material	glass fibre reinforced polyester
Cabinet colour	yellow RAL 1003
Attachment	By two M10 belts
Working temperature	-40°C - +85°C
Protection class	Class I
Number and function of contacts	2 disconnecting and 2 connecting
Protection	IP 67
Load-bearing capacity	400VAC/6A, 230VAC/8A, 24VDC/10A, 80VDC/3A

### Accessory for a single LHPw-10/2-L50 switch:

It must be specified in the order including the number of pieces.

Bushing M25 x 1.5      M25x1,5      \*2 pcs

\* the number will be determined according to the number of led-in cables - max. 2 pieces

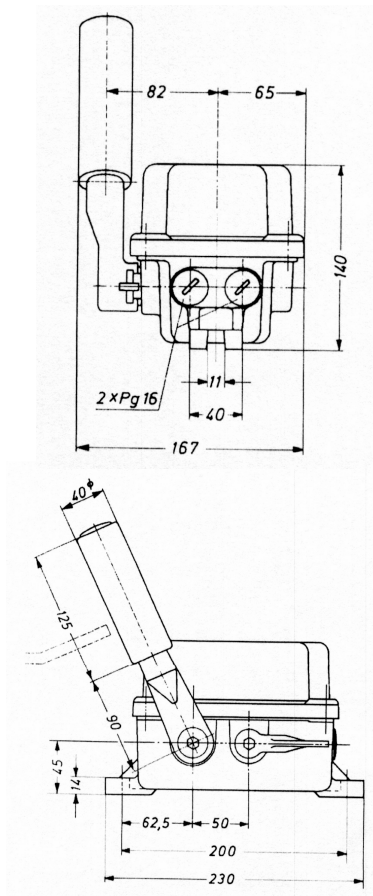
**The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.**



THE EUROPEAN REGIONAL DEVELOPMENT FUND  
AND THE MINISTRY OF INDUSTRY AND TRADE OF  
CZECH REPUBLIC SUPPORT INVESTMENT IN YOUR FUTURE

# zam servis

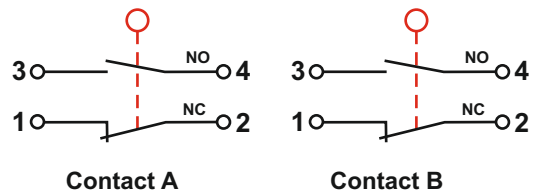
## Conveyor Belt Swing Switch LHPw-10/2-L50



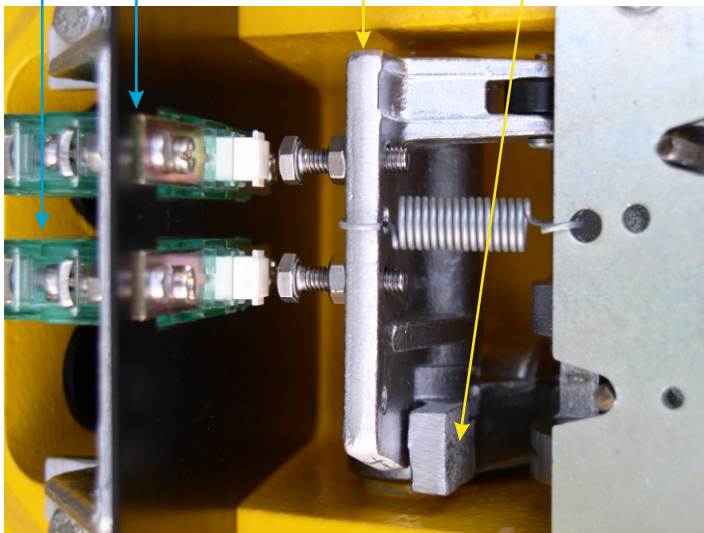
Example of assembly



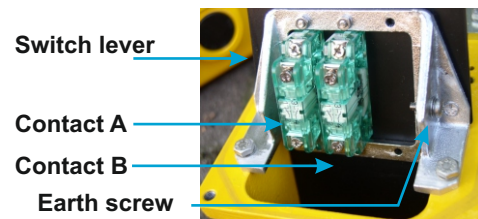
Switch contacts



Contact A  
Contact B  
Blocking mechanism  
Synchronisation module



Order of contacts in the switch



The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.

ISO 9001 : 2009  
V140116

ZAM-SERVIS s.r.o. Křišťanova 1116/14 702 00 Ostrava - Přívoz  
tel.: +420 596 135 422, email: zam@zam.cz, www.zam.cz

These data sheets are not an offer within the meaning of Czech Republic Law No. 89/2012.