

Conveyor Belt Misalignment (off-track) Switch

LHPxx-xx/x-L

DUK
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- **Up to 4 contacts NC + 4 NO**
- **Snap-action, direct opening**
- **2 cable entries M25**
- **Impact resistant glass fibre reinforced polyester housing, optional cast iron**
- **IP 67**
- **Optional: Signal Lamp**

Off-track switches are used along belt conveyors to reduce the danger of damage or destruction of the belt by misalignment of the belt.

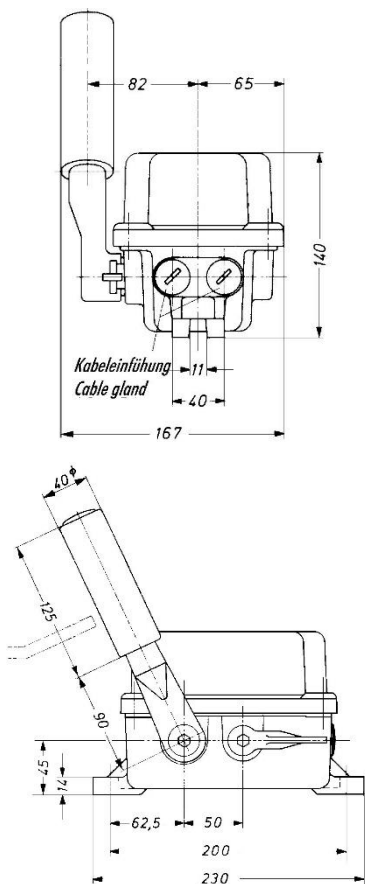
The design of these misalignment switches considers heavy duty service. Housings made of grey cast iron (type LHM...) or of most stable, impact resistant, thick-walled and strongly oxidating atmospheres resistant glass fibre-reinforced polyester (type LHP...) as well as the roller levers made of best components available, such as rollers, shafts and ball bearings all made of stainless steel, are the best guarantees for long years of reliable service.

Both housings are IP67 protected (water- and dust proof).

These misalignment switches should be installed pairwise, left and right of the conveyor. In case that the conveying belt should misalign from the given track, one roller lever of these switch pair will be touched by the edge of the belt and displaced against the resetting force of an switch-internal spring. Actuation of the contacts is being effected in snap-action characteristic when the lever is displaced 7cm out of the neutral position. The maximum displacement angle of the roller lever is 75°. Optional is a 2-stage switch, first stage for signalling and the second stage for cut off. Signalling happens at a displacement of 4cm, cut off at 7cm. In case that the value of misalignment is reduced reset happens automatically. A further version provides latching in main contacts actuated position.

Secure opening of every NC-contact is guaranteed by the direct opening system (positive drive of every contact). For decreasing the contact resistance all contacts perform a self cleaning actuation at every actuation. The contacts are made of silver and are optionally gold plated. For best contact safety at lowest tensions and low currents the gold contacts are recommended.

Conveyor Belt **Misalignment Switch** LHPE-xx/x-L



Technical Data

Conforms to standard	EN60947, EN 60529, EN 60204
Value of off-track for main contacts	7cm
warning contacts	4cm
Max. displacement	75°
Roller lever	stainless steel, double stainless steel ball beared, 40mm diameter
Contacts	NC contact snap action, direct opening NO contact snap action all self-cleaning
Rating	Silver contacts: 400 VAC 6 A / 230 VAC 8 A / 24 VDC 10 A / 80 VDC 3 A
Minimum current	Goldcontacts: 1mA @ 6VDC
Utilization categorie	Silver contacts AC-15 230V 1A, DC-13 110V 0,5A Gold contacts AC-12 230V 250mA, DC-12 110V 250mA
Cable inlet	2 x M25 threaded holes
Protection	IP 67
Housing material	glass fibre reinforced (LHPE-xx/x-L)), cast iron (LHME-xx/x-L)
Housing colour	yellow RAL 1003 or red RAL 3000
Weight	LHPE-xx/x-L 2.9kg/LHME-xx/x-L 6.2kg
Fixing	2 holes for M10-screws
Operating temperature	- 40°C up to + 85°C

Selection table

Switch type	Main contacts (25°)		Warning (15°)		Latching	Contact material
	NC	NO	NC	NO		
LHPE-10/1-L	1	1				silver
LHPEw-10/1-L	1	1			X	silver
LHPE-10/2-LV	1	1	1	1		silver
LHPEw-10/2-LV	1	1	1	1	X	silver
LHP-10/2-L	2	2				silver
LHPw-10/2-L	2	2			X	silver
LHP-10/3-LV	2	2	1	1		silver
LHPw-10/3-LV	2	2	1	1	X	silver
LHP-10/3-L	3	3				silver
LHPw-10/3-L	3	3			X	silver
LHP-10/4-LV	3	3	1	1		silver
LHPw-10/4-L	3	3	1	1	X	silver
LHP-10/4-L	4	4				silver
LHPw-10/4-L	4	4			X	silver
LHPE-13/1-L	1	1				gold
LHPEw-13/1-L	1	1			X	gold
LHPE-13/2-LV	1	1	1	1		gold
LHPEw-13/2-LV	1	1	1	1	X	gold
LHP-13/2-L	2	2				gold
LHPw-13/2-L	2	2			X	gold
LHP-13/3-LV	2	2	1	1		gold
LHPw-13/3-LV	2	2	1	1	X	gold
LHP-13/3-L	3	3				gold
LHPw-13/3-L	3	3			X	gold
LHP-13/4-LV	3	3	1	1		gold
LHPw-13/4-L	3	3	1	1	X	gold
LHP-13/4-L	4	4				gold
LHPw-13/4-L	4	4			X	gold

Grey cast iron housing

All switches in cast housing available, choose type figures LHM.... instead of LHP.... E.g.. LHME-10/2-LV

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