

Pullcord Switch

with Ex -protected contacts



LHPw-EX..-B
LHMw-EX..-B

Installation and operating instructions

Principle:

Before any work shall be carried out it has to be checked that the circuit are isolated and any specific and general security instruction has been fulfilled.

Rope operated emergency stop switches of this type are provided to be installed between two rope ends. Length of the ropes should not extend on none of both sides 50 m.

The switch is being actuated by pulling the rope out of one possible direction. To fulfill Standard EN 60947 (automatic emergency stop at rope rupture) the switch is being also actuated by the force of one of two externally mounted and pre-tensioned springs. The switch latches itself when actuated and can be released manually at the blue lever.

Pre-mounting (only LHMw-EX..-B):

Erect the switch onto its feet that way that the identification plate is at the left side. Loose the screw out of the switch shaft together with the washer by aid of a 10 mm wrench. Take the enclosed "forked lever" that way that the decreased bore is at your side. Pin this lever onto the free shaft end and tighten with the previously screwed out screw and washer with a torque of 8 Nm.

Mounting:

Fix the switch on a plane, stable console with two suitable screws M10 at the 2 holes of the foot. Pay attention to proper grounding of the housing (LHMw-EX..-B by earthing screw on the housing or by the mounting foot, LHPw-EX..-B only by the foot (the polyester housing of this type is conducting). Fix end of ropes being connected to the switch at the fork bolt via suitable accessories (such as eyelets SKA and rope clips SKL out of our accessory programme), whereby the other end of the ropes are to be mounted at the preload springs (for fulfillment of EN 60947 and DIN EN 418) (e.g. type SPF out of our accessories). Pre-tensioning of these springs according to springs separate installation instruction. The rope should be guided and suspensioned by aid of suitable accessories (such as rope loops SH out of our accessory programme) at least any 4,5 meters. There should be no deviation within the line of the rope.

Electrical installation:

The free cable ends are to be connected within an Ex-free or Ex-protected atmosphere. NC-contacts are numbered with 1 and 2 (or 11 and 12 as well as 21 and 22), the NO according with 3 and 4.

Check:

Please check any electrical and mechanical function after completion of installation.

Maintenance:

There is no need for any maintenance works for DUK rope operated emergency stop switches. Check right funtion.

All applicable standards are integral parts of this manual.

Certification of contacts	EEx d IIC T6, Ex II 2 G, Ex II 2 D T80°C
Conforming to standards	ATEX / EN 60 947-5-1 / EN 60954 / DIN EN 292 / UVV-VBG10 / DIN EN 418 if equipped with 2 springs SPF
Rope force for actuation	> 40 N
Switching capacity	silver contacts: ohmic 230 VAC 5 A / 30 VAC 7 A cos phi 0,6 250VAC 3A / 30 VAC 5 A gold plated: min 5V / max 30V min 4 mA / max 400 mA max 0,12 VA
Utilization category	AC-15 4A 250V / AC-15 2A 400V / DC-13 0,15A 250V
Material of housing	cast iron (LHMw-EX), polyester (LHPw-EX)
Fixing	2 slotted holes max 11mm width
Ambient temperature	-20°C up to +40°C (Gas), -20°C up to +75°C (Dust)

