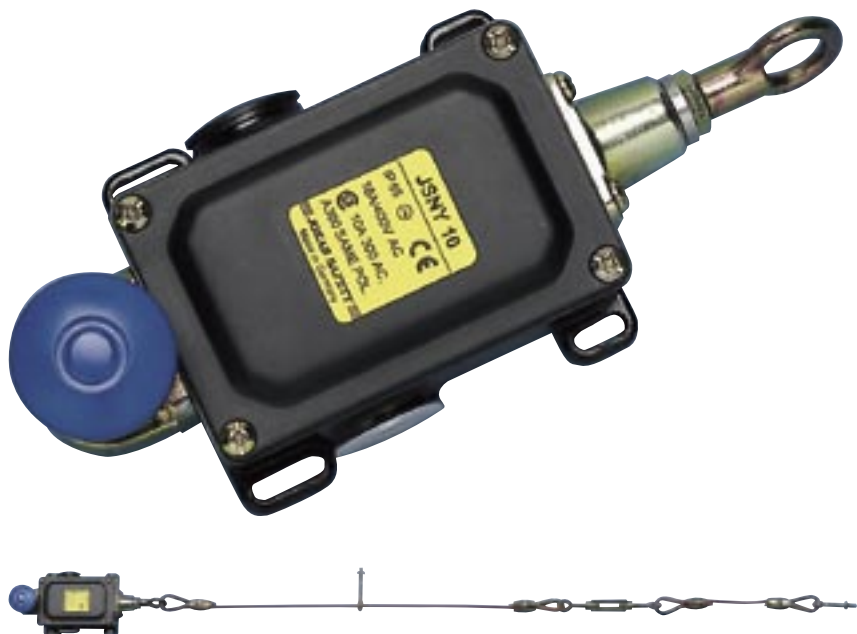


Emergency-stop Grab Wire Safety Switch JSNY10



Approvals:



Application:

Machines
Transportation lines

Features:

Easily accessible
Forced contacts
Double switching in both
directions of travel
Up to 25 m Wire length

Description

The JSNY10 can provide an easy to reach emergency stop along machines, transportation lines and processes. The device is easier to install than several individual emergency-stop buttons.

The JSNY10 can be utilised in several different ways to suit various applications e.g the wire could be positioned at waist height along a transportation line, the emergency stop being activated if somebody walks into or falls onto the line or the wire could be positioned at head height making it easy to grab by anyone requiring to create an Emergency Stop.

The JSNY10 has four contacts. When the switch is installed and the correct wire tension set, all four contacts are closed. If the wire is pulled, two of the contacts open; if the wire breaks the other two contacts open. In both cases a dual channel machine stop signal will be given.

In order to reset the JSNY10 the integral mushroom-head slam button has to be activated.

Forced Disconnected Contacts

The contacts of the JSNY10 are forced disconnected. Forced disconnection means that the contacts are mechanically pulled apart thus ensuring protection against contact welding/sticking.

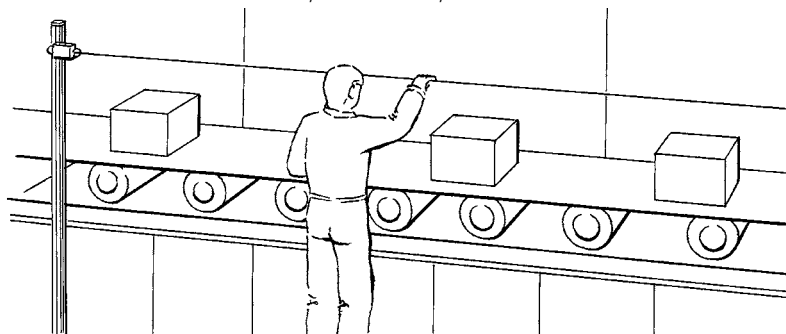
Safety level

The forced disconnected contacts provide a high safety level. By combining the JSNY10 with a suitable Jokab Safety safety relay a high safety level to the connection of the machine control system is guaranteed. JSNY10 can be combined with Tina-units for connection to a safety circuit with several safety components according to Safety Category 4.

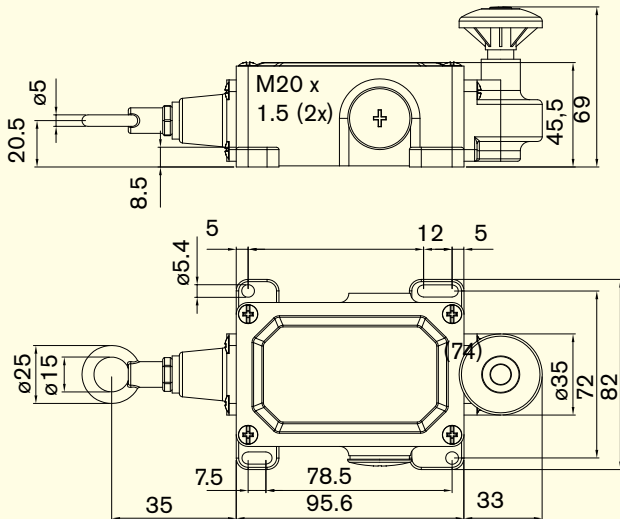
Regulations and Standards

The JSNY10 is designed and approved in accordance to relevant standards. Examples of relevant standards are EN 418 (emergency-stop regulation), EN60947-1, EN 60947-5-1, VDE 0113, EN 292 and VDE 0660 T200.

Emergency-stop Grab Wire easily accessible during normal work operation along a machine



Technical data - JSNY10

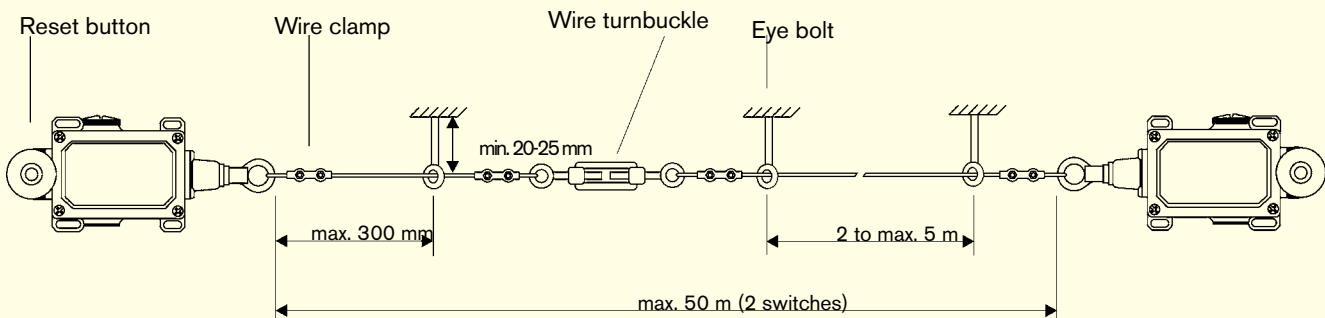


Supplier	JOKAB SAFETY AB, Sweden
Ordering data	see Component ordering list
Colour	Black with yellow label
Housing Material	Cast aluminium
Lid Material	Aluminium
Operating temperature	-30°C to +80°C
Switching contacts, (forced)	4 (2)
Protection class	IP 65, EN 60529
Mechanical life	1 million switching cycles
Max. switching frequency	20/min
Reset method	mushroom-head slam button
Max. wire length	25 m
Mounting	4 x M5
Terminals	Screw terminal, 8 x M4
Cable access	2 x M20 x 1.5
Weight	0.70 kg
Max. voltage	400 VAC
Thermal current	16 A
Utilisation category	AC 15, DC 13
Short-circuit protection	16 A delay fuse 20 A quick fuse

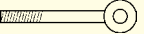

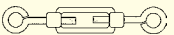



Mounting - JSNY10

Wire supports should be attached at a height of at least 20-25mm above the surface where the switch is to be installed.

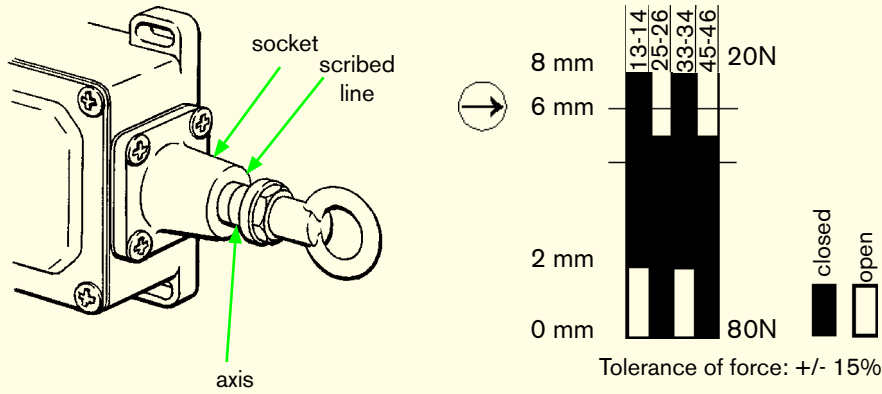
Turnbuckles may be used to 'tune' the pull-wire system to the correct tension. A medium operating temperature should be maintained during installation. The wire should be pulled heavily several times, then the tension of the wire should be readjusted to compensate for the elongation of the wire resulting from thimble distortion.



Component ordering list - JSNY10

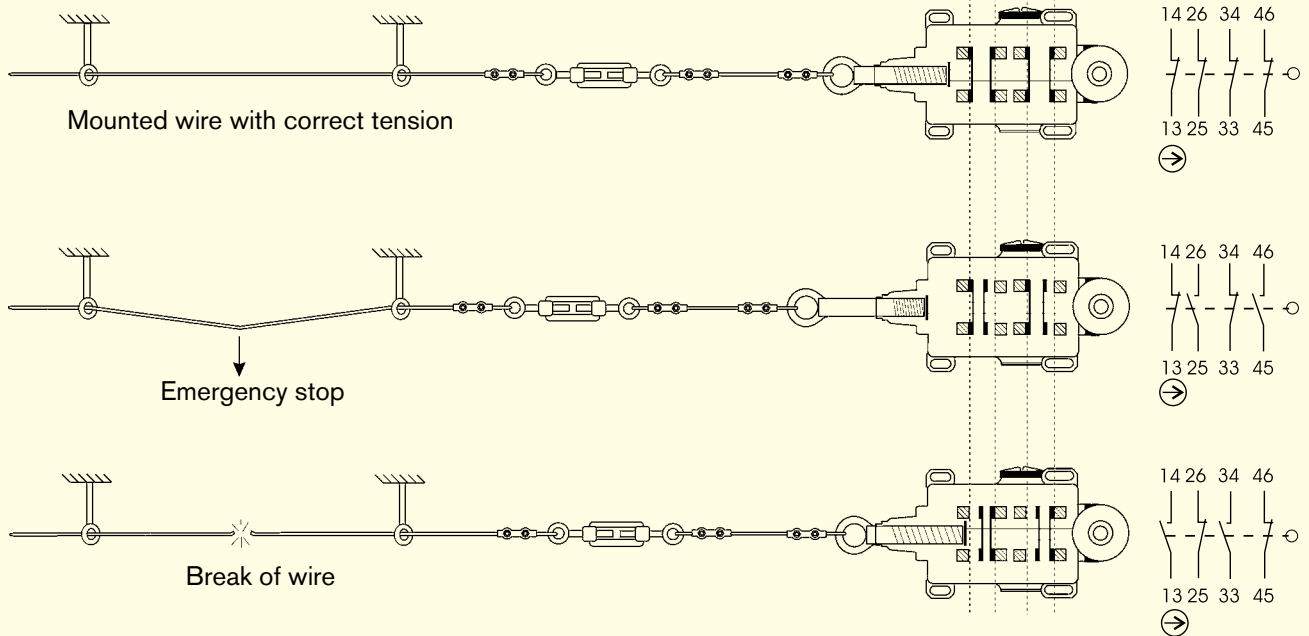
JSNY10	Switch	JSNY10-S6	Eye bolt M6x50	
JSNY10-K	Mounting kit 25 m: Plastic coated steel cable wire 1 pce Wire turnbuckle 4 pcs thimble 4 pcs wire clamp 5 pcs eye bolts with nuts	JSNY10-M6	Nut M6 (to eyebolt)	
		JSNY10-V6	Wire turnbuckle M5x50	
		JSNY10-L3	Wire clamp, duplex	
JSNY10-W3	Wire plastic coated red 3 mm/4 mm (core/sleeve) per Meter	JSNY10-T4	Wire thimble	
		JSNY10-R5	Swivel for wire	

Contact Adjustment JSNY10



When the wire is installed with the correct tension all contacts are closed. Adjust the turnbuckle to get correct tension, the scribed line on axis of the JSNY10 should be just visible at the top of the socket.

When an emergency stop condition occurs switches 25-26 and 45-46 open, when the wire breaks contacts 13-14 and 33-34 open.



Electrical Connection JSNY10

Electrical connection of JSNY10, highest safety level.

Note!

The connection shows the JSNY10 in a correctly tensioned condition.

