



Belt Conveyor - Pull rope Switch

NTS



APPLICATION

Kiepe pull-rope emergency stop switches type NTS are used Kinepe pull-rope emergency stop switch types NTS comply with accordance with the requirements of EN 620 as well as BGI 710 a Notachinery Directive 2006/42/EC and meet the requirements in the in conformity with DIN EN ISO 13850 as emergency stop devices states of Low Voltage Directive 2006/95/EC.

supplementary safety measures on conveyor belt systems. The puthey must only be used in control electrical circuits. rope is symmetrically tensioned on both sides of the red release

lever.

The devices are suitable for outdoor use and applications where the ambient temperature varies considerably.

The NTS BMC-plastic housing offers space for up to 3 simultaneously switching NO and NC contacts. Taking into consideration the safety data and maintenance recommendations, the pull-rope emergency stop switch type NTS can be used in safety circuits in

With the pull-rope system functionally aligned, the emergencyaccordance with **DIN EN ISO 13849 up to Performance Level e** stop signal can be triggered over a distance of up to about 100 m (**PLe**). for each switch.

FuNCTION

The pull-rope emergency stop switch is actuated by a pull rope The emergency stop signal is performed with positive-making connected on both sides of the red release lever. The contacts arenormally closed (NC) contacts in accordance with the closed circuit actuated by a spring supported cam disc (snap action function) nciple.

At the same time, up to three NC and NO contacts are actuated simultaneously and a cross comparison of the contacts can performed with an external control unit.

After the emergency stop function is triggered, the switching mechanism is locked in the shut-off position "0". When the blue reset lever is actuated in switch position "1", the switching contacts are reactivated and the conveyor belt is prepared for being turned back on again.

Resetting the pull-rope emergency stop switch must not cause the conveyor system to start up.

TECHNICAL DATA

Designation	Pull-rope emergency stop switch type NTS Emergency stop device with latching function				
Type of actuation	Bidirectional; spring-loaded ("snap action")				
Complies with	DIN EN ISO 13850; DIN EN 60204-1; DIN EN 60947-5-5; DIN EN 60947-5-1; EN 620; BGI 710				
Suited for	Control units and systems in accordance with DIN EN 60204				
Mechanics					
Enclosure	Bulk moulding compound (BMC)				
Finish	Enclosure – yellow (similar to RAL 1004) Release lever – red (similar to RAL 3000) Reset lever – blue (similar to RAL 5010)				
Mounting	4 slotted holes for M8 screws				
Installation position	Horizontal, tilt angle up to about 15°				
Pull-rope length	Up to approx. 100 m				
Actuation force	30 N ± 10 N				
Weight	2.02 kg				
Electrical system					
Switching system	Up to 3 NC and NO contacts; cam operated positive-making switches				
Cable entry	Threaded holes 2x M25 x 1.5 with each				
	1x screwed cable gland: sealing area 11 mm to ⁿ 16 mm; 1x screw plug				
Utilization category	AC-15: 230 V; 6 A DC-13: 110 V; 1.1 A				
Connection cross section	1 mm² to 2.5 mm²				
Protective conductor connection	no contact; protection class I				
Rated insulation voltage U	400 V				
Rated impulse withstand voltage	2.5 kV, degree of pollution III				
Conventional thermal currenth	16 A				
Contact reliability	1 2 million switching operations				
Ambient conditions in accordance with DIN EN 60947-5-5					
Permissible ambient temperature	–25 °C …+70 °C				
Extended ambient temperature range	–40 °C …+70 °C (type HEN 7xx)				
Protection rating	IP 67 in accordance with EN 60529				

Safety data in accordance with DIN EN ISO 13849 and EN 61062

Safety functions

Usable in accordance with DIN EN ISO 13849-1 B10d value Emergency stop incl. latching Manual reset Up to PLe (depending on customer application) 24,000 actuations

93.067.319.001

SELECTION TABLE

Туре	Contact c NC	onfiguration NO	Integrated signal lamp -⊗-	Temperature range –40 °C+70 °C	Ventilation membran	Order number	
NTS 001	1	1				91.064 084.001	
NTS 002	2	2				91.064 084.002	
NTS 004	1	1	LED 230 V			91.064 084.004	
NTS 005	2	2	LED 230 V			91.064 084.005	
NTS 018	2	2			х	91.064 084.018	
NTS 701	1	1		Х		91.064 084.701	
NTS 702	2	2		Х		91.064 084.702	
NTS 061	2 (Au)	2 (Au)	LED 24 V		х	91.064 084.061	
Further models available on request							
Equipment options:							
Gold-plated contacts							
Ventilation membran							
Reset with square instead of lever							
LED signal lamps in AC/DC version for 230 V or 24 V							
Devices for two-wire bus line							
Spare parts and accessories:							
Screwed cable gland PA M25 x 1.5 (sealing area 11 mm to 16 mm)						113.51.00.20.10	
Screw plug PA M25 x 1.5						113.43.87.20.01	
Replacement lamp: LED AC/DC 230 V / 1,3 W						338.04.01.02.01	
Replacement lamp: LED AC/DC 24-28 V / 0,8 W					338.04.01.02.02		
Ventilation membran M12 x 1						580.00.16.01.01	

Cover NTS including seal and screws

MOuNTINg

Pull-rope emergency stop switches of types NTS are each fasteness well as the protective conductor connection. The pull-represented to the substructure in installation position with 4 M8 screws, tensioned by tension spring between the anchor hook and centered between the anchor hook of the pull-rope system (see fastened onto the red release lever. the mounting diagram).

After the tension spring have been adjusted, the actuation Electrical connection is performed with the device open using the force and path for triggering the switch must be tested to ensure screwed cable gland included in the delivery, directly on the screwcompliance with specified requirements. joints of the switching elements and the lamp fitting (option)





DIMENSIONS





Subject to change without notice.

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