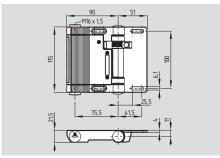
Safety switch for hinged guards

TVS 410





- Metal enclosure
- Adjustable switching angle
- Opening angle 180°
- Mountable on the inside and the outside of the safety guard
- Screw terminals, cage clamps or connector
- Simple mounting, for all common profile systems (30 ... 60 mm)
- Oil and petroleum resistant
- 2 cable entries M16 x 1.5
- For left or right hinged doors

Technical data

Standards: IEC/EN 60947-5-1
BG-GS-ET-15

Enclosure: light-alloy diecast
Protection class: IP 65 to EN 60529
Contact material: AgNi10
Contact type: 2x change-over contact

slow action,
NC contact with
positive break
Connection: Screw terminals

or Cage clamps

or connector

Cable section: max. 1 mm²

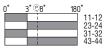
(incl. conductor ferrules)

 $\begin{array}{lll} \text{Cable entry:} & 2 \text{ x M16 x 1.5} \\ \text{U_{imp}:} & 2.5 \text{ kV} \\ \text{U_{j}:} & 250 \text{ V} \\ \text{I_{the}:} & 2.5 \text{ A} \\ \text{$U\text{tilisation category:}} & \text{$D\text{C-}13$} \end{array}$

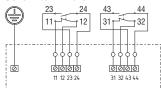
I_e/U_e: 1 A / 24 VDC Max. fuse rating: 2 A gG D-fuse to DIN EN 60269-1

Contact variants

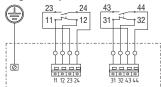
2 NO/2 NC



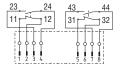
Screw terminals



Cage clamps

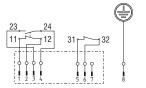


Connector ST1 or ST2 Version 11/11



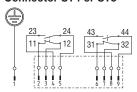


Version 11/01





Connector ST4 or ST5





Approvals



in preparation



Ordering details

TVS 410 ①-②③④

143 410 0-604							
No.	Replace	Description					
1	SK	Screw terminals					
	CC	Cage clamps					
	ST1	Connector M12 bottom					
	ST2	Connector M12 top					
	ST4	Connector M16 bottom					
	ST5	Connector M16 top					
2	11/11	2NC/2NO					
		versions ST1, ST2					
		only for PELV circuits					
	11/01	2NC/1NO					
		versions ST1, ST2					
		with PIN 8 as PE					

Ordering details

No.	Replace	Description			
3	U	Adjustable switching angle (incl. adjustment tool)			
	1	Inside installation (with fixed switching angle) *			
	Α	Outside installation (with fixed switching angle) *			
4	N	Without alignment aid With alignment aid			

Note

Contact switch travel diagrams: 0° = safety guard closed.

Caution! The versions ST1 and ST2 11/11 may only be used in PELV circuits to EN 60204-1.

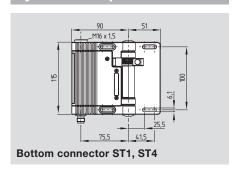
 * The factory-set switching angle is 3°.

The positive break angle is 5° .

Until the limit of the mechanical life has been reached the angle can increase up to 8° under normal wear-out conditions.

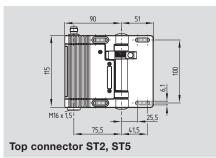
Safety switch for hinged guards

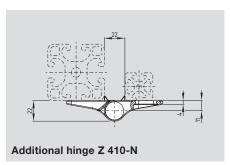
System components

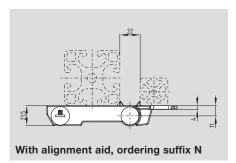


System components











72.6		-11				tai	10
10.4	l III		II. T	N. W. I	l mil	4011	

Connector M12, 8 pins, 24 VDC, bottom

top ST2 Connector M16, 10 pins, 250 VAC,

bottom ST4 top ST5

With alignment aid

Ordering details

Additional hinge without alignment aid with alignment aid

ST1

ordering suffix N

Z 410 Z 410-N

Adjustment tool

K 410

Further information can be found: List TESF/05 ELAN, Wettenberg

SCHMERSAL 3