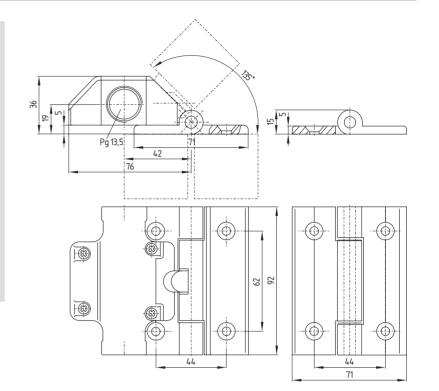
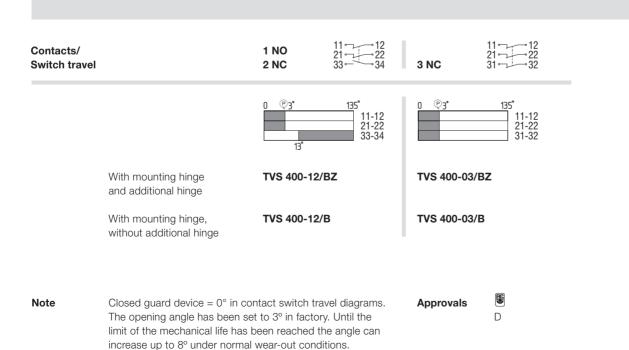
- 4. Safety switches for hinged safety guards
- **4.2** Hinge safety switches
- **4.2.5** TVS 400 range



- Features
- Thermoplastic enclosure
 Simple mounting, especially on 40 mm profiles

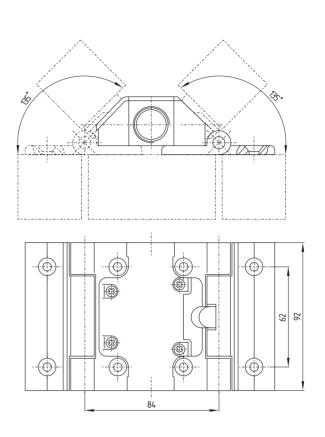
- Good resistance to oil and petroleum spirit
- 2 cable entries
- For doors hinged on left or right-hand side



4.2 Hinge safety switches

4.2.5 TVS 400 range

Mounting
example• 2 doors hinged on
a central pillar



- Info
- The additional hinge including mounting accessories is also available separately, part number Z 400
- Plug connection and mounting kits for profile sections of the most common makes on enquiry

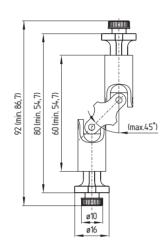
Ordering	A TVS 400 safety switch with 1 NO		
details	and 2 NC contacts with mounting		
	and additional hinge:		
	TVS 400-12/BZ		

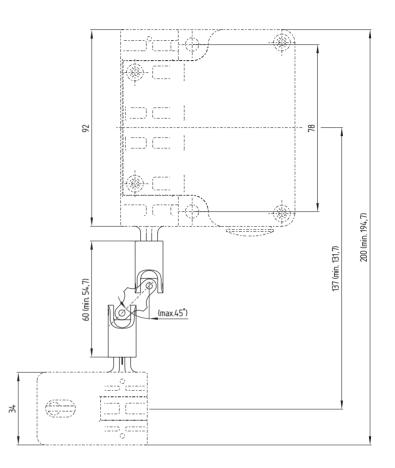
4.2 Hinge safety switches

4.2.7 Accessories

Universal joint K1

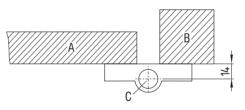
- Complete with pins mounted
- Only suitable for TV8S 521





Mounting details

A = Guard door B = Door post C = Door hinge D = Distance from axis of hinge

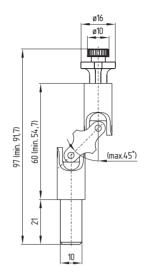


4.2 Hinge safety switches

4.2.7 Accessories

Universal joint K2

- Factory-mounted pins
- Suitable for ES 95 SB-10mm, EEx 95 SB-10mm, TV10S 335 and TV10S 355
- Suitable only in connection with hinges F and L

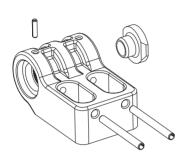


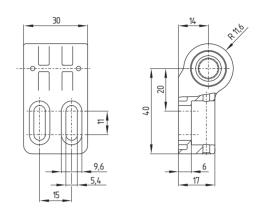
4.2 Hinge safety switches

4.2.7 Accessories

Fixed hinge F

Included in delivery Locating pins
One blanking plug
Two M 5 x 20 screws to ISO 7380

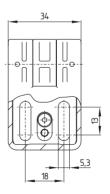


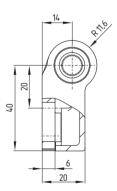


Adjustable hinge L

- Included
- in delivery
- Locating pins
- One blanking plug
 Two M 5 x 20 screws
- 1wo M 5 x 20 screv to ISO 7380







4.3 Technical data

	TV.S 335/355	T.V10S 500	TVS 400	TV8S 521			
Standards:	IEC/EN 60947-5-1; EI	IEC/EN 60947-5-1; EN 1088; BG-GS-ET-15					
Design:	Mounting dimensions	Mounting dimensions to EN 50047					
Enclosure material:	Light-alloy diecasting,	Light-alloy,	Glass-fibre reinforced	Light-alloy diecasting,			
	enamelled	enamelled	thermoplastic,	enamelled			
			self-extinguishing				
Protection class:	IP 67		IP 65	IP 67			
	to IEC/EN 60529						
Contact material:	Silver						
Contact type:	Change-over with	2 or 3 change-over	Change-over with	2 change-over contacts			
	double break Zb or	contacts with	double break Zb or	with double break Zb,			
	1 NC or 2 NC, with	double break Zb	3 NC	with galvanically separated			
	galvanically separated			contact bridges			
	contact bridges						
Switching system:	⊖ IEC 60947-5-1; & E	\odot IEC 60947-5-1; @ BG-GS-ET-15; slow action, NC contacts with positive break					
Termination:	Screw terminals for	Screw terminals for Screw terminals for max. 1.5 mm ² cables (incl. conductor ferrules)					
	max. 2.5 mm ² cables	max. 2.5 mm ² cables					
	(incl. conductor ferrule	es)					
Rated impulse							
withstand voltage U _{imp} :	6 kV	4 kV	2.5 kV	4 kV			
Rated insulation voltage Ui:	500 V	250 V					
Thermal test current Ith :	10 A		2.5 A	6 A			
Utilisation category:	AC-15; DC-13						
Rated operating							
current/voltage I _e /U _e :	4 A/230 VAC;		2.5 A/230 VAC;	4 A/230 VAC;			
	2.5 A/400 VAC;		2 A/250 VAC;	2.5 A/400 VAC;			
	1 A/500 VAC; 1 A/24	1 A/500 VAC; 1 A/24 VDC		1 A/500 VAC; 1 A/24 VDC			
Max. fuse rating:	6 A (slow blow)		2 A (slow blow)	6 A (slow blow)			
Ambient temperature:	– 25 °C + 70 °C	– 25 °C + 80 °C	– 25 °C + 65 °C	– 25 °C + 70 °C			
Mechanical life:	> 1 million	3 million	> 1 million				
	operations	operations	operations				
Switching frequency:	Max. 1,000 / h		Max. 1,200 / h	Max. 1,000 / h			
Shaft bore:	Ø 8 or 10 mm	Ø 10 mm	_	Inner toothing			
Positive break angle:	7°	10°	5°	14°			
Positive break torque:	0.23 Nm	1.5 Nm	1 Nm	0.8 Nm			

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