Accessories **EUCHNER**

Selection table for accessories

Actuators

Insertion funnels

Montageplatten/Montagewinkel

Connect	tion			
SGLF				Plug connector; M12; 4-pin
	SR6			Plug connector; 6-pin + PE
		SR11		Plug connector; 11-pin + PE
			RC18	Plug connector; 18-pin + PE

Cable glands

LED displays

Miscellaneous

Bolts for safety guards

Actuators	Insertion	Mounting plates/		Plug co	nnectors		Cable	LED	Miscella-	Во	lts	Page
Actuators	funnels	mounting brackets	SGLF	SR6	SR11	RC18	glands	displays	ays neous	Metal	Plastic	rage
•												74 - 82
	•											83
		•										84 / 85
			•									85
				•								86
					•							86
						•						87 / 88
							•					89
								•				89
									•			90 - 92
										•		93 - 96
											•	97



Actuators for safety switches NP/GP/TP

- Actuators made of stainless steel
- ► Two stainless safety screws per actuator
- Actuators with optional rubber bushings

Straight actuator

The straight actuator is used on sliding doors or hinged doors with door radii greater than 1000 mm. Safety screws prevent unscrewing of the actuator.

Actuator with overtravel

- 2 mm for doors with normal play
- 7 mm for doors with large play (optional)

Actuator with rubber bush

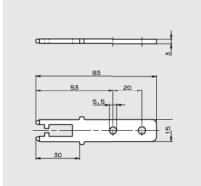
For flexible mounting of the actuator.

Screws made of stainless steel

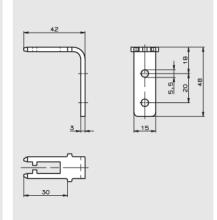
The safety screws included can be inserted with a normal tool, but cannot be removed again.

Actuator P-G straight Overtravel 2 mm

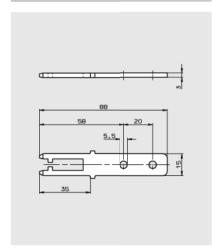
Dimension drawings



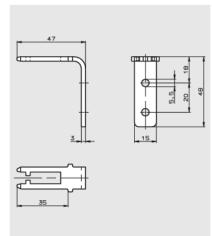
Actuator P-W bent Overtravel 2 mm



Actuator P-GN straight Overtravel 7 mm

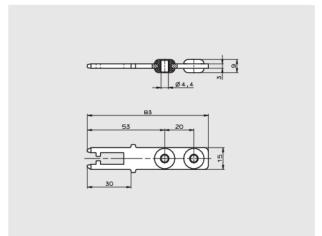


Actuator P-WN bent Overtravel 7 mm



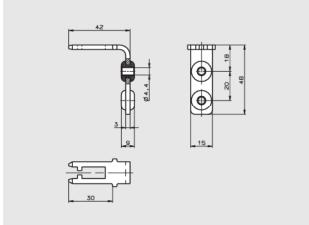
Designation	Version	Min. door radius r [mm]	Packaging unit	Order No.
Actuator straight	P-G Overtravel 2 mm incl. 2 safety screws M5 x 10	1000	1 ea.	059 226 ACTUATOR-P-G
Actuator bent	P-W Overtravel 2 mm incl. 2 safety screws M5 x 10	1000	1 ea.	059 227 ACTUATOR-P-W
Actuator straight overtravel	P-GN Overtravel 7 mm incl. 2 safety screws M5 x 10	1000	1 ea.	074 570 ACTUATOR-P-GN
Actuator bent overtravel	P-WN Overtravel 7 mm incl. 2 safety screws M5 x 10	1000	1 ea.	074 571 ACTUATOR-P-WN

Actuator P-GT straight Rubber bush, overtravel 2 mm

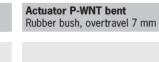


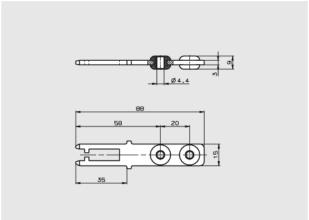
Actuator P-WT bent

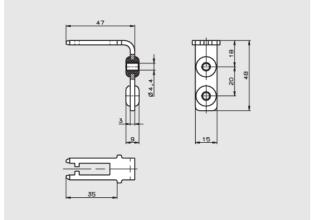
Rubber bush, overtravel 2 mm



Actuator P-GNT straight Rubber bush, overtravel 7 mm







Designation	Version	Min. door radius r [mm]	Packaging unit	Order No.
Actuator straight rubber bush	P-GT Overtravel 2 mm incl. 2 safety screws M4 x 14	1000	1 ea.	070 046 ACTUATOR-P-GT
Actuator bent rubber bush	P-WT Overtravel 2 mm incl. 2 safety screws M4 x 14	Overtravel 2 mm 1000 1 ea.		070 038 ACTUATOR-P-WT
Actuator straight rubber bush, overtravel	P-GNT Overtravel 7 mm incl. 2 safety screws M4 x 14	1000	1 ea.	074 576 ACTUATOR-P-GNT
Actuator bent rubber bush, overtravel	P-WNT Overtravel 7 mm incl. 2 safety screws M4 x 14	1000	1 ea.	074 577 ACTUATOR-P-WNT



Hinged actuators for safety switches NP/GP/TP

- Actuators made of stainless steel
- ► Two stainless safety screws per actuator
- ► For top and bottom hinged doors
- ► For right and left hinged doors

Hinged actuator

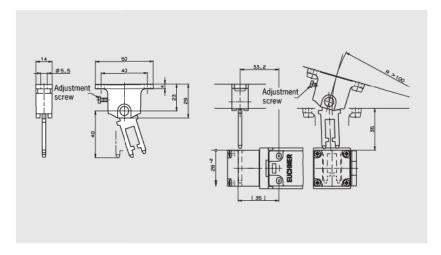
For door radii less than 1000 mm a hinged actuator should be used. The spring action movement of the actuator prevents damage due to the actuator jamming in the actuating head. Depending on the movement of the safety guard, the actuator must be selected for left/right or top/bottom.

Hinged actuator P-OU

Safety guard hinged at top/bottom, overtravel 2 mm

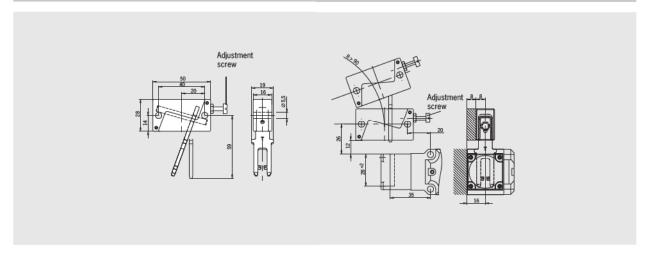
Dimension drawings Adjustment Adjustment screw

Hinged actuator P-LR Safety guard hinged on left/right, overtravel 2 mm

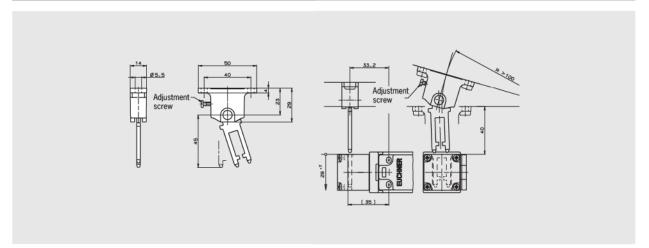


Designation	Version	Min. door radius r [mm]	Packaging unit	Order No.
	P-OU For top and bottom hinged doors overtravel 2 mm incl. 2 safety screws M5 x 25	90	1 ea.	070 050 HINGED ACTUATOR P-OU
Hinged actuator	P-LR For left and right hinged doors overtravel 2 mm incl. 2 safety screws M5 x 10	100	1 ea.	059 440 HINGED ACTUATOR P-LR

Hinged actuator P-OUN Safety guard hinged at top/bottom, overtravel 7 mm



Hinged actuator P-LRN Safety guard hinged on left/right, overtravel 7 mm



Designation	Version	Min. door radius r [mm]	Packaging unit	Order No.
	P-OUN For top and bottom hinged doors overtravel 7 mm incl. 2 safety screws M5 x 25	90	1 ea.	074 572 HINGED ACTUATOR P-OUN
Hinged actuator	P-LRN For left and right hinged doors overtravel 7 mm incl. 2 safety screws M5 x 10	100	1 ea.	074 573 HINGED ACTUATOR P-LRN

Insertion funnels/adapters

- Insertion funnel
- Adapter NP-K

Insertion funnel

If an insertion funnel is used, even inexactly positioned actuators are inserted reliably in the actuating head due to the large opening aperture, thus protecting the safety switch against mechanical influences.

- Cannot be used in conjunction with TP safety switches with increased overtravel from top
- The insertion funnel for TP can only be used in conjunction with an actuator with long overtravel
- The insertion funnel for STP can only be used in conjunction with an actuator for insertion funnel

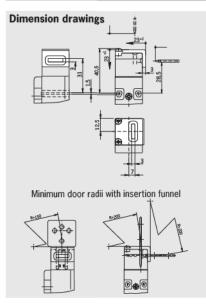
Adapter NP-K

The adapter NP-K is used for top entry overtravel applications for the NP series.

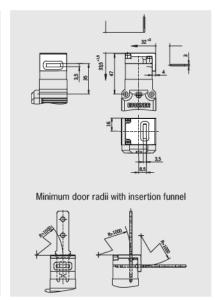
- The adapter cannot be used for safety switches of the GP/TP series
- 4 screws 3 x 38 (not safety screws) are supplied

Insertion funnel

For safety switches NM..VZ

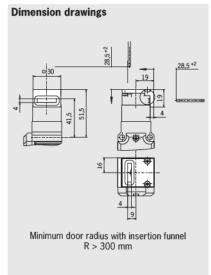


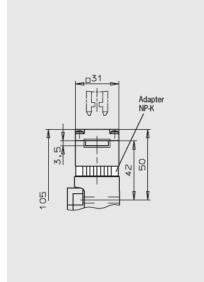
Insertion funnel For safety switches NP..A/GP/TP..A



Insertion funnel For safety switches SGP/STA/STP/STM

Adapter NP-K For safety switches NP





Designation	Version	Use	Order No.
		For safety switches	083 565
		NMVZ	Insertion funnel M
In continue formula	Incl.	For safety switches	086 237
Insertion funnel	2 fastening screws	NPA/GP/TPA without adapter	Insertion funnel NP/GP/TP
		For safety switches	093 157
		SGP/STA/STP/STM	Insertion funnel STP/STM
A.L ND.1/	Incl.	E () ND	074 578
Adapter NP-K	4 fastening screws	For safety switches NP	Adapter NP-K



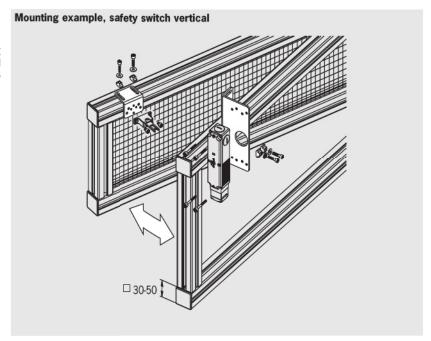
Mounting plates EMP for safety switches TP...A, STA, and STP

► For vertical and horizontal mounting of safety switches TP...A, STA and STP

The mounting plates are used for fastening safety switches TP...A, STA and STP and actuators to safety guards. The safety switches can be attached vertically and horizontally.

Note

Mounting plate material: St37 galvanized



Switch	Installation method switch	Mounting plate switch	Mounting plate actuator		ator	to sv	d axis vitch
				ST	TPA	ST	TPA
		093 456	093 457	095 740	070 038		
		EMP-SB	EMP-B1		074 577		
TPA STA STP				6		> 300 mm	> 1000 mm
		03 70 %	#100 MIL	page 80	page 77		
	A Vertical	83	M4 (4x)	095 315	059 440		
	vertical		M5 (4x)	096 697	074 573		
33		M5 (8x)	150		M5 x 10	> 200 mm	> 100 mm
			200 4=2	page 81/82	page 78/79		
			093 458	096 838	070 050		
	B Horizontal		EMP-B2	096 844	074 572	> 100 mm	> 90 mm
				page 81/82	page 78/79		

Plug connectors SR6 and SR11

- Plugs and sockets
- Crimp contacts
- ▶ 90° angled optional
- Cable optional
- Coding shells

Angled plug connector

On plug connectors without cables the direction of the cable exit can be chosen.

Male socket

For fitting in safety switches.

Coding shells

Two coding shells and screws. If used only matching connectors can be mated.

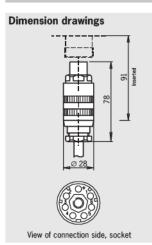
Cable (optional)

Cable sleeve PUR, color gray, wire cross-section 1.0 mm² (individual lines numbered).

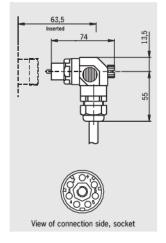
Pin assignment for plug with cable

SI	R6	SR	11
Pin	Wire	Pin	Wire
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
(7	7	7
		8	8
		9	9
		10	10
		11	11
		(12

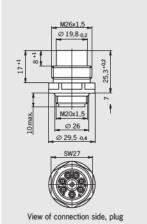
Female plug SR6 EF 6-pin + PE



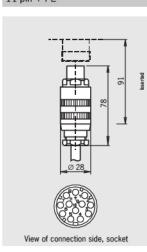
Female plug SR6 WF angled 6-pin + PE



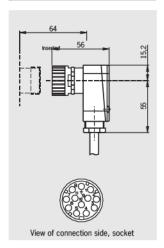
Male socket SR6 AM 6-pin + PE



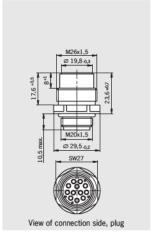
Female plug SR11 EF 11-pin + PE



Female plug SR11 WF angled 11-pin + PE



Male socket SR11 AM 11-pin + PE



Darden etter	Wanalan			Cable		
Designation	Version	None	5 m	10 m	15 m	25 m
	EF	013 176	077 632	077 633	077 634	
	Female plug	SR6EF	SR6EF-5000	SR6EF-10000	SR6EF-15000	_
	WF	024 999	077 638	077 639	077 640	
SR6 1)	Female plug angled	SR6WF	SR6WF-5000	SR6WF-10000	SR6WF-15000	_
6-pin + PE	K	013 178				
	Coding shells	SR6K	_	_	_	_
	AM	087 180				
	Male socket, connection M20 x 1.5	SR6AM2-M20	_	_	_	_
	EF	070 859	077 629	077 630	077 631	094 749
	Female plug	SR11EF	SR11EF-5000	SR11EF-10000	SR11EF-15000	SR11EF-2500
SR11 1)	WF	054 773	077 635	077 636	077 637	
11-pin + PE	Female plug angled	SR11WF	SR11WF-5000	SR11WF-10000	SR11WF-15000	_
	AM	091 296				
	Male socket, connection M20 x 1.5	SR11AM2-M20	_	_	_	_
	Socket crimp contacts Wire cross-section 0.5 - 1.5 mm	Socket crimp contacts Wire cross-section SRF		-	-	-
SR6 and SR11	Pin crimp contacts Wire cross-section 0.5 - 1.5 mm	071 261 SRM	-	_	_	-

¹⁾ Crimp contacts supplied. For information on crimp contacts see page 98.

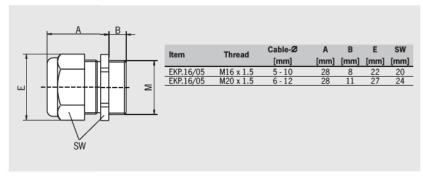


Cable glands

- ► M16 x 1.5
- ► M20 x 1.5

Cable glands

Suitable for various cable diameters. Versions available in plastic and metal.



Ordering table

ordorning table					
Thread	Vanalan	Material			
inread	Version	Metal	Plastic		
M16 - 1 F	Cable diameter		084 572		
M16 x 1.5	5 – 10 mm	-	EKPM16/05		
M00 1 F	Cable diameter		086 233		
M20 x 1.5	6 – 12 mm	-	EKPM20/06		

LED displays for safety switches GP/TP and STP

- ▶ LED set
- ▶ Built-in LED

LED set

Consisting of cover with lamp caps, LED module with rectifier and two LEDs (green/red). For retrofitting safety switches TP and STP with an LED display.

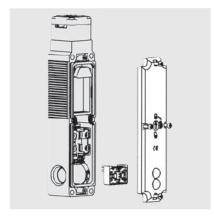
Operating voltage AC/DC 24 V +10%, -15%.

Built-in LED

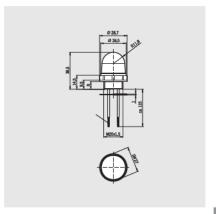
The built-in LED is suitable for direct installation in one of the M20 x 1.5 threads of the three cable entries of the safety switches GP/TP/STP. The built-in LED indicates to the user whether the switch is locked or whether the door is open/closed.

The switching element can be wired individually. Operating voltage DC 24 V +10%, -15%.

LED set For safety switches TP/STP



Built-in LEDFor safety switches GP/TP/STP/STA



Designation	Version	Use	Packaging unit	Order No.	
	Incl. cover with lamp caps and LED module with	For safety switches TP	1 ea.	093 752 LED set TP	
LED set	rectifier and 2 LEDs (red/green)	For safety switches STP For safety switches	1 ea.		098 035 LED set STP
Built-in LED	Color red for cable entry M20 x 1.5, with seal light radiation to side	For safety switches GP/TP/STA/STP	1 ea.	087 423 LED M20x1.5	
(IP65)	Color red for cable entry M20 x 1.5, with seal light radiation to front	For safety switches GP/TP/STA/STP	1 ea.	095 510 LED-F M20x1.5	



Miscellaneous accessories

- Latch spring for increased retention force
- Lockout bar
- ► Lock for mechanical release

Latch spring

Provides an increased retention force of approx. 30N for the safety switches NP and GP or TP in unlocked condition.

May only be used in conjunction with the straight actuator with rubber bush (Order No. 070 046).

Lockout bar

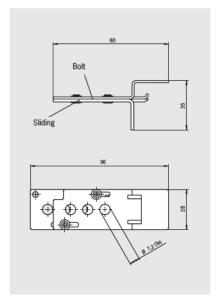
With the safety door open, can be slid into the actuating head on a switch with separate actuator (NP/GP/TP) instead of an actuator. Removal can be prevented using a commercially available padlock (max. 2 ea.). For the protection of people in areas with a possible hazard.

Latch spring for increased retention force For safety switches NP/GP/TP

Installation example

min.ø10

Lockout bar For safety switches NP/GP/TP



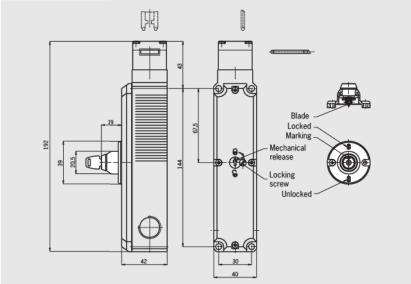
Lock

The lock is used in combination with safety switch TP/STP. The mechanical key release enables authorized personnel to actuate the mechanical release using the related key in certain situations. The unlocking mechanism holds the solenoid in the "unlocked" position. Two screws are used to fix the lock to the cover of the safety switch TP/STP (above the mechanical release).

- Order safety switch TP/STP separately
- 2 keys are included
- Every safety switch of the series TP/STP can be upgraded to include a lock

LockFor safety switches TP/STP





Designation	Version	Use	Order No.
Lockout bar	2 holes	For safety switches NP/GP/TP	096 105 Lockout bar
Latch spring		For safety switches NP/GP/TP	076 501 Latch spring NP/TP
Lock	Unique locking (unique key needed to open)	For safety switches TP/STP	084 177 Lock TP
	Identical locking (identical locks)	For safety switches TP/STP	086 236 Lock TP
	Replacement key (2 ea.) for identical locking	For safety switches TP/STP/SGP-TW	099 434 Replacement key for identical TP

Miscellaneous accessories

- Emergency unlocking for safety switches TP/STP
- Emergency unlocking for safety switches STA
- Emergency unlocking with automatic reset for safety switches TP/STP
- ► Triangular key for safety switches TK

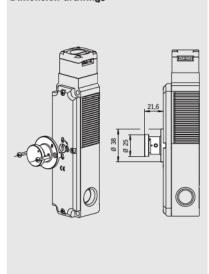
Emergency unlocking

Is used for the manual release of the guard locking without tools. The emergency unlocking mechanism must be returned to the locked state manually. A sealing wire can be fitted to protect against tampering.

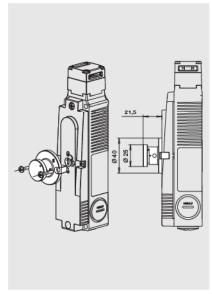
Attention: Prior to mounting, the locking screw for the mechanical release must be removed.

Emergency unlockingFor safety switches TP/STP

Por safety switches TP/STP Dimension drawings



Emergency unlockingFor safety switches STA

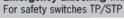


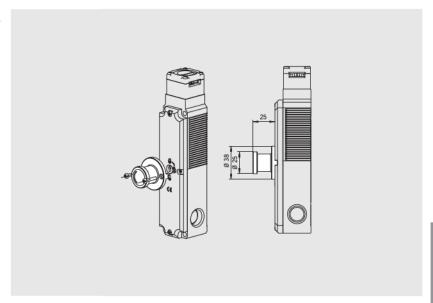
Release

Is used for manual unlocking of the guard locking. The integrated spring automatically resets the release to the locked state.

Attention: Prior to mounting, the locking screw for the mechanical release must be removed.

Emergency unlocking with automatic reset





Designation	Version	Use	Best. Nr.
Emergency unlocking	Incl. 2 screws M3 x 17	For safety switches TP/STP	099 877 Emergency unlocking TP/STP
Emergency unlocking	Incl. 2 screws M3 x 17	For safety switches STA	099 876 Emergency unlocking STA
Emergency unlocking with automatic reset	Incl. 2 screws M3 x 17	For safety switches TP/STP	103 110 Emergency unlocking with automatic reset TP/STP
Triangular key	DIN 22417 M5 100 mm	For safety switches TK	103 057 Triangular key



Miscellaneous accessories

- ► Wire front release (bowden)
- ► Handle for wire front release (bowden)
- Safety screws
- ► Replacement screws

Wire front release (bowden)

Flexible routing of the cabling rope permits release of the guard locking in all installation situations.

- Use as emergency unlocking in the case of inaccessible mounting of the safety switch.
- Use as escape release for release of the guard locking from within the danger area.
- Can be retrofitted on all safety switches series TP/STP.

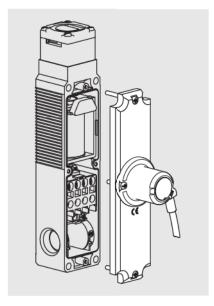
Safety screws

To prevent unscrewing of actuators and actuating heads. The screws can be tightened using a normal tool, but cannot be removed again.

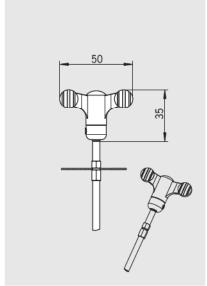
Replacementscrews

For mounting actuating heads (not safety screws).

Front wire release (bowden) For safety switches TP/\$TP



Handle for front wire release For safety switches TP/STP



Designation	Version	Use	Order No.
	Length 3 m (2 m sheathed)	For safety switches TP	096 230 BW-TP-C-2000
Front wire release (bowden)	Length 4 m (3 m sheathed)	For safety switches TP	098 313 BW-TP-C-3000
pre-assembled incl. cover and pull wire	Length 5 m (4 m sheathed)	For safety switches TP	098 314 BW-TP-C-4000
	Length 3 m (2 m sheathed)	For safety switches STP	097 952 BW-STP-C-2000
Handle for wire front release		For safety switches TP/STP	099 795 BW handle
	M5 x 25	For hinged actuators for top and bottom hinged doors of series NMVZ, NP, GP and TP	073 457 M5x25/V100
	M5 x 10 Material: stainless steel	For actuators straight/bent/hinged actuators for right and left hung doors of series NMVZ, NP, GP and TP	073 455 M5x10/V100
Safety screws	M4 x 14	For all actuators in series NMVZ	074 063 M4x14/V100
VPE: 100 ea.	M4 x 14 Material: stainless steel	For actuators straight/bent/hinged with bush of series NP, GP and TP	086 232 M4x14/V100
	PL3x30	Cap screws for series NPA, GP and TPA	075 532 PL3x30/V100
	PL3x26	Cap screws for series NMAL, NMAG, NMAV, NMAV and NMVZ	085 576 PL3x26/V100
	PL3x8	Cap screws for series NMHB, NMKB, NMRB and NMWO	085 577 PL3x8/V100
Replacement screws VPE: 100 ea.	PL3x30 Material: stainless steel	Cap screws for series NPA, GP and TPA	082 237 PL3x30/V100
(not safety screws)	PL3x38	Cap screws for series NPK and TPK	076 755 PL3x38/V100



Bolt for safety guards for safety switches NP, GP and TP

For left or right hinged doors



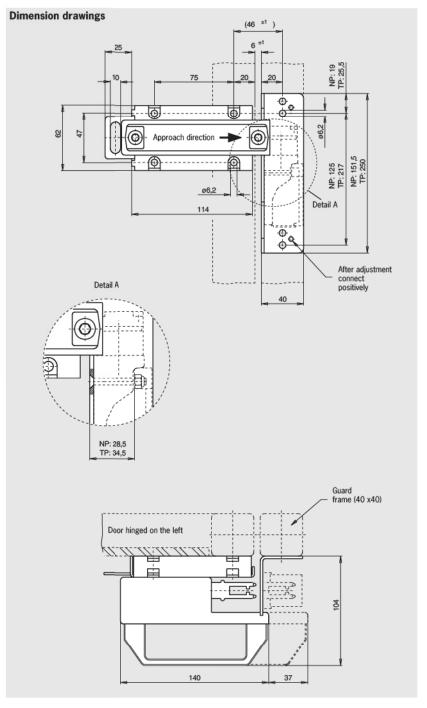
Features

- Easily fitted to standard aluminum profiles and machine covers by screw connection
- Distinctive yellow color for easy recognition
- Symmetrical design for doors hinged on the right or left
- No additional door handle necessary
- Automatic detent mechanism when bolt is moved to the locked position (only available on bolt 1 NP/TP version)
- Detent mechanism prevents unintentional opening of the hinged door
- ▶ Slot on the bolt permits attachment of padlocks
- ldentical bolt for safety switches series NP...AS and TP...A

Notes

- Switch bracket NP is suitable only for the series NP...AS
- Switch bracket TP is suitable only for the series TP...A and GP
- Actuator included
- Please order safety switch and switch bracket separately

Bolt for safety switches NP..AS/GP.../TP...A



Designation	Detent mechanism	Version	Order No.
D-Is O ND CD	None	For right or left hinged doors	073 535
Bolt 0 NP/TP	None	(also for GP)	Bolt 0 NP/TP
Pole 1 ND /TD	1 x detent	For right or left hinged doors	073 536
Bolt 1 NP/TP	mechanism closed	(also for GP)	Bolt 1 NP/TP
Switch bracket NP		Separate	073 538
Switch bracket NP			Switch bracket NP
Switch bracket TP		Separate (also for GP)	073 539
Switch bracket IP			Switch bracket TP



Bolt for safety guards for safety switches GP and TP

 Lever for escape release from the danger area (optional)



Special features

(only for bolt TP-AF and TP-CF with escape release)

- Bolt with detent mechanism The bolt latches in open position to prevent unintended closing
- Lever for escape release from the danger area

Features

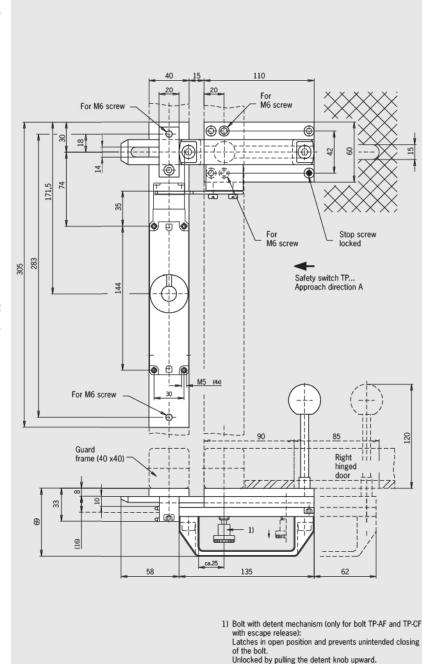
- Easily fitted to standard aluminum profiles and machine covers by screw connection
- Distinctive yellow color for easy recognition
- Robust version for heavy doors
- No additional door handle necessary
- Slot on the bolt permits attachment of padlocks

Notes

- The bolts are suitable only for the series **TP...A** and **GP**
- Actuator included
- Please order safety switch separately

Bolt for safety switches GP.../TP...A/TP..A.-C1743/TP...A.-C1993

Dimension drawings (here: shown with escape release)



Designation	Detent mechanism	Version	Order No.
Bolt TP-AF	Detent knob	For right hinged doors	086 186
BOIL IP-AF	Detent knob	with escape release	Bolt TP-AF
Dalk TD CE	Detent knob	For left hinged doors	086 188
Bolt TP-CF	Detent knob	with escape release	Bolt TP-CF
Bolt TP-A	None	For right hinged doors	084 430
	None	without escape release (also for GP)	Bolt TP-A
Dale TD C	N	For left hinged doors	084 432
Bolt TP-C	None	without escape release (also for GP)	Bolt TP-C

Bolt for safety guards for safety switches GP, SGP, TP, STA and STP

- Material: reinforced plastic
- Lever for escape release from the danger area
- For left or right hinged doors



Special features

 Bolt with detent mechanism (only for bolts with escape release)
 The bolt latches in open position to prevent unintended closing

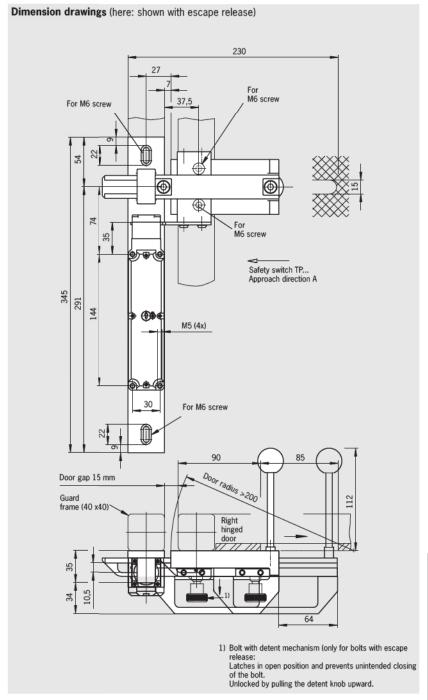
Features

- Easily fitted to standard aluminum profiles and machine covers by screw connection
- Distinctive yellow color for easy recognition
- Robust version for heavy doors
- No additional door handle necessary
- Slot on the bolt permits attachment of padlocks

Notes

- Functions only in conjunction with switch bracket TP-GFK
- Actuator included
- Please order safety switch separately
- Order switch bracket separately

Bolt for safety switches GP.../TP...A/TP..A.-C1743/TP...A.-C1993



Designation	Detent mechanism	Version	Order No.
D-4-TD OFF F	Detent knob	For right or left hinged doors	097 602
Bolt TP-GFK-F		with escape release (also for GP)	Bolt TP-GFK-F
D-4 TD OFF	without	For right or left hinged doors	096 616
Bolt TP-GFK		without escape release (also for GP)	Bolt TP-GFK
D-H-CTD CEV	without	For right or left hinged doors	098 121
Bolt STP-GFK		without escape release (also for SGP/STA)	Bolt STP-GFK
Switch handlest TD CEV		Consists (also for CD/CCD/CTD/CTA)	096 613
Switch bracket TP-GFK		Separate (also for GP/SGP/STP/STA)	Switch bracket TP-GFK