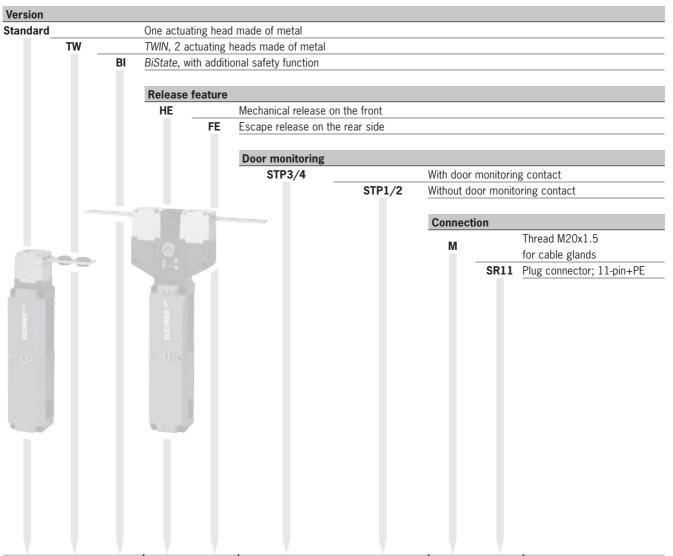
Selection table for safety switches STP with guard locking and guard lock monitoring



Version		Release feature		Door monitoring		Connection		Page	
Standard	TW	BI	HE	FE	STP3/4	STP1/2	M	SR11	
•			•		•		•	•	56 - 57
•			•			•	•		58
•			•	•	•		•		59
		•	•		•			•	60
	•		•		•		•		61

Safety switch STP with guard locking and guard lock monitoring



- Actuating head made of metal
- Mechanical release on the front
- ► With door monitoring contact



Approach direction



Horizontal and vertical Can be adjusted in 90° steps

Mechanical release

Is used for releasing the guard locking with the aid of a tool. The mechanical release is sealed with sealing lacquer to prevent tampering.

Solenoid operating voltage

AC/DC 24 V +10%, -15% AC 110 V +10%, -15% AC 230 V +10%, -15%

LED function display (optional)

A function display (2 LEDs, red and green) is available for the following voltage ranges:

► AC/DC 24 V +10%, -15%

Guard locking types

STP3 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the interlocking solenoid.

STP4 Open-circuit current principle, guard locking by applying voltage to the interlocking solenoid. Release by spring force.

Switching elements

► 537 Slow-action switching element 1 NC ⊕ + 1 NC (door monitoring contact)

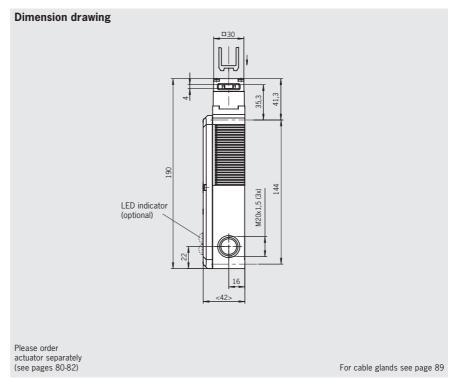
≥2131 Slow-action switching element 2 NC → + 1 NO + 1 NC (door monit. contact)

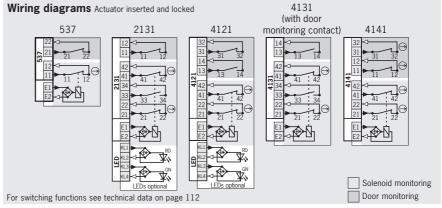
▶4121 Slow-action switching element 2 NC ⊕ + 1 NC / 1 NO (door monit. contact)

▶ **4131** Slow-action switching element 2 NC → + 1 NO + 1 NO (door monit. contact)

▶ **4141** Slow-action switching element $2 NC \oplus + 2NC \oplus (door monit. contacts)$

Cable entry M20 x 1.5





Ordering table

Ordering					Sc	olenoid operating voltag	Τ Δ
Series	Connection	Guard locking	Switching element	Version	AC/DC 24 V	AC 110 V	AC 230 V
		3 Mechanical	2131		091 493 STP3A-2131A024M	099 326 STP3A-2131A110M	On request
			2 NC → + 1 NO + 1 NC	024L LED display AC/DC 24 V	091 748 STP3A-2131A024L024M	On request	On request
			4121 2 NC → + 1 NC / 1 NO		096 890 STP3A-4121A024M	On request	094 792 STP3A-4121A230M
			4131 2 NC → + 1 NO + 1 NO		091 776 STP3A-4131A024M	On request	On request
	м		4141 2 NC → + 2 NC		099 272 STP3A-4141A024M	On request	On request
CTD	Cable	4 Electrical	537 1 NC → + 1 NC		092 259 STP4A-537A024M	On request	On request
STP	entry 3 x		2131		091 494 STP4A-2131A024M	097 754 STP4A-2131A110M	On request
	M20x1.5		2 NC → + 1 NO + 1 NC	024L LED display AC/DC 24 V	091 749 STP4A-2131A024L024M	On request	On request
			4121		093 159 STP4A-4121A024M	094 793 STP4A-4121A110M	094 794 STP4A-4121A230M
			2 NC → + 1 NC / 1 NO	024L LED display AC/DC 24 V	100 026 STP4A-4121A024L024M		
			4131 2 NC → + 1 NO + 1 NO		093 158 STP4A-4131A024M	On request	On request
			4141 2 NC → + 2 NC →		099 314 STP4A-4141A024M	On request	On request

1) With cable entry M, DC 24 V / AC 110 V

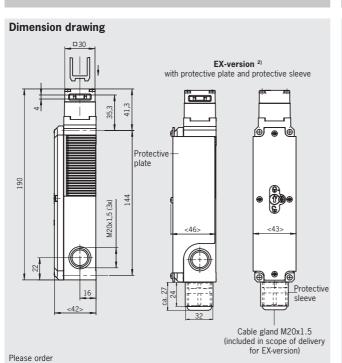


c(ŲL)us

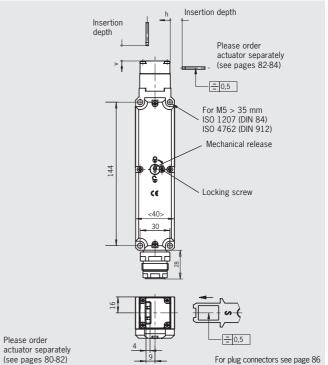
Safety Switches with Separate Actuator, Plastic Housing EUCHNER

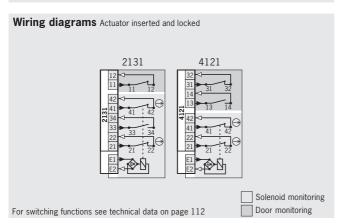
c $(U_L)^{(1)}_{us} (E_X)^{(2)}$

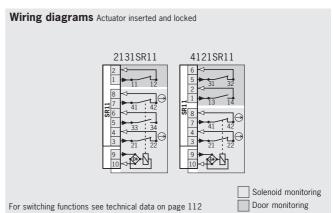
Cable entry M20 x 1.5



Plug connector SR11 11-pin + PE







Ordering table

actuator separately (see pages 80-82)

Series	Connection	Guard locking	Switching element	Version	Solenoid operating voltage			
001100	00111100011011	addra rooming	Ouncoming diditions	70101011	AC/DC 24 V	AC 110 V	AC 230 V	
	M Cable entry	3 Mechanical	2131 2 NC \rightarrow + 1 NO + 1 NC 4121 2 NC \rightarrow + 1 NC / 1 NO	ATEX Incl. cable gland ATEX Incl. cable gland	093 794 ²⁾ STP3A-2131A024M-EX 097 626 ²⁾ STP3A-4121A024M-EX	On request On request	On request On request	
0.TD	3 x M20x1.5	4 Electrical	2131 2 NC → + 1 NO + 1 NC	ATEX Incl. cable gland	093 795 ²⁾ STP4A-2131A024M-EX	On request	On request	
STP	SR11 Plug connector	3 Mechanical	4121 2 NC → + 1 NC / 1 NO		096 318 STP3A-4121A024SR11	-	-	
		4	2131 2 NC → + 1 NO + 1 NC		097 565 STP4A-2131A024SR11	-	-	
		Electrical	4121 2 NC → + 1 NC / 1 NO		099 301 STP4A-4121A024SR11	-	-	

1) With cable entry M, DC 24 V/AC 110 V 2) 🕲 II 3 G Ex nC IIC T4 / 🕲 3 D Ex tD A22 T110°C X



Safety switch STP with guard locking and guard lock monitoring



- Actuating head made of metal
- Mechanical release on the front
- ► Without door monitoring contact



Approach direction



Horizontal and vertical Can be adjusted in 90° steps

Mechanical release

Is used for releasing the guard locking with the aid of a tool. The mechanical release is sealed with sealing lacquer to prevent tampering.

Solenoid operating voltage

AC/DC 24 V +10%, -15% AC 110 V +10%, -15% AC 230 V +10%, -15%

LED function display (optional)

A function display (2 LEDs, red and green) is available for the following voltage ranges:

► AC/DC 24 V +10%, -15%

Guard locking types

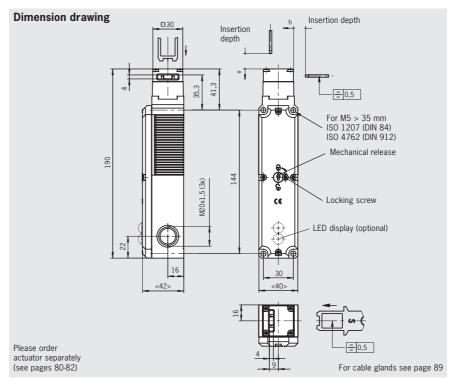
STP1 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the interlocking solenoid.

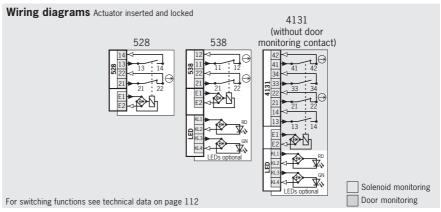
STP2 Open-circuit current principle, guard locking by applying voltage to the interlocking solenoid. Release by spring force.

Switching elements

- ► 528 Slow-action switching element 1 NC → + 1 NO
- ▶4131 Slow-action switching element 2 NC → + 2 NO

Cable entry M20 x 1.5





Ordering table								
Series	Connection	Guard locking	Switching element	Version	Solenoid operating voltage			
Series	Connection	dual d locking	Switching element	. VEI SIOII	AC/DC 24 V	AC 110 V	AC 230 V	
			528		092 266	0		
			1 NC → + 1 NO		STP1A-528A024M	On request	On request	
					092 258			
					STP1A-538A024M	On request	On request	
			538	024L				
		1	2 NC ⊖	LED display AC/DC 24 V	092 489			
	M Cable entry 3 x M20 x 1.5	Mechanical		with pre-assembled	STP1D-538A024L024M	On request	On request	
				insertion funnel				
					091 491			
			4131 2 NC → + 2 NO		STP1A-4131A024M	On request	On request	
STP				024L	091 746		On request	
				LED display AC/DC 24 V	STP1A-4131A024L024M	On request		
		2 Electrical			092 260			
			538		STP2A-538A024M	On request	On request	
			2 NC ⊖	024L	092 490			
				LED display AC/DC 24 V	STP2A-538A024L024M	On request	On request	
					091 492	0 1		
			4131		STP2A-4131A024M	On request	On request	
			2 NC → + 2 NO	024L	091 747	0 1		
				LED display AC/DC 24 V	STP2A-4131A024L024M	On request	On request	

Safety switch STP with guard locking and guard lock monitoring



- Escape release on the rear side
- With door monitoring contact
- Increased horizontal overtravel



Approach direction



Horizontal and vertical Can be adjusted in 90° steps

Escape release

Is used for the manual release of the guard locking from within the danger area without tools. With identification of On/Off position.

Solenoid operating voltage

► AC/DC

24 V

+10%, -15%

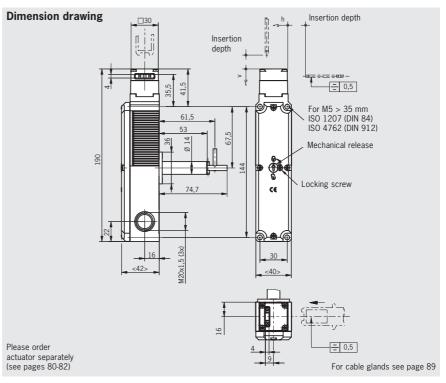
Guard locking types

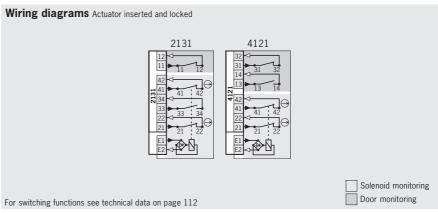
STP3 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the interlocking solenoid.

Switching elements

4121 Slow-action switching element $2 \text{ NC} \oplus + 1 \text{ NC} / 1 \text{ NO}$ (door monitoring contact)

Cable entry M20 x 1.5





Series	Connection	Guard locking	Switching element	Version	Solenoid operating voltage AC/DC 24 V
етр	M Cable	3	2131 2 NC → + 1 NO + 1NC	C1993 Long actuator shaft	102 267 STP3A-2131A024MC1993
STP	entry 3 x M20 x 1.5	Mechanical	4121 2 NC → + 1 NC / 1 NO	C1993 Long actuator shaft	096 885 STP3A-4121A024MC1993



Safety switch STP-BI with guard locking and guard lock monitoring



- Actuating head made of metal
- ► Mechanical release on the front
- Additional safety function
- With door monitoring contact



Approach direction



Horizontal and vertical Can be adjusted in 90° steps

Mechanical release

Is used for releasing the guard locking with the aid of a tool. The mechanical release is sealed with sealing lacquer to prevent tampering.

Safety function

The STP-BI additionally features a safety function that prevents

- persons unintentionally locking themselves inside if the safety guard is open in the event of a power failure or when the machine is switched off
- the activated guard locking being deactivated in the event of a power failure.

Solenoid operating voltage

► AC/DC 24 V +10%, -15%

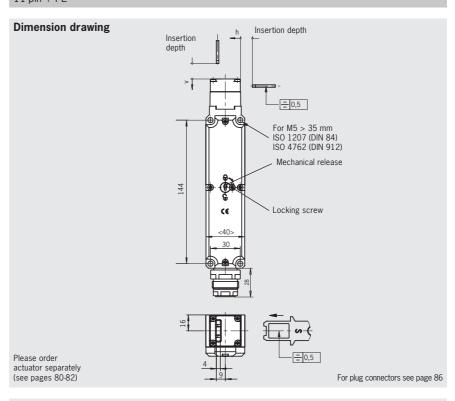
Guard locking types

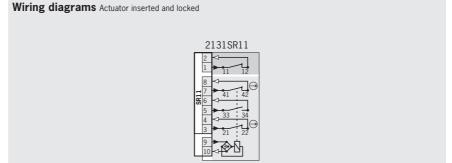
STP3 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the interlocking solenoid.

Switching elements

≥2131 Slow-action switching element 2 NC → + 1 NO + 1 NC (door monit. contact)

Plug connector SR11 11-pin + PE





For switching functions see technical data on page 113

Solenoid monitoring Door monitoring

Series	Connection	Guard locking	Switching element	Version	Solenoid operating voltage
001100	0011110001011	addi a looking	Ouncoming diditions	70101011	AC/DC 24 V
STP-BI	SR11 Plug connector	3 Mechanical	2131 2 NC → + 1 NO + 1 NC		100 105 STP-BI-3A-2131A024SR11



Sicherheitsschalter STP-TW mit Zuhaltung und Zuhaltungsüberwachung

- ► Zwei Betätigungsköpfe aus Metall
- Gleichzeitige Überwachung von zwei Schutztüren
- Hilfsentriegelung an der Frontseite
- Schlüsselhilfsentriegelung optional
- Mit Türmeldekontakt



Approach direction



Horizontal and vertical Can be adjusted in 90° steps

Mechanical release

Is used for releasing the guard locking with the aid of a tool. The mechanical release is sealed with sealing lacquer to prevent tampering.

Mechanical key release

If the switch has a mechanical key release, the drive's safety circuit can be opened and retained in this position. In this way unintentional starting of the system can be prevented.

The lock function setting is indicated in the window.

Two keys are included.

Solenoid operating voltage 24 V

► AC/DC

+10%, -15%

Guard locking types

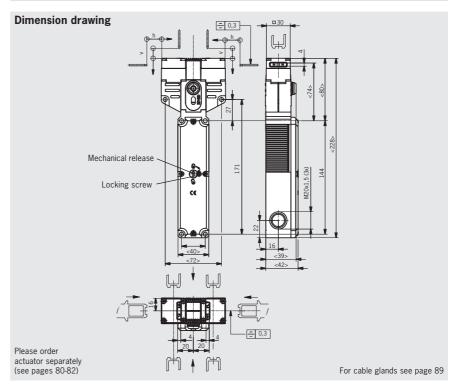
STP3 Closed-circuit current principle, guard locking by spring force. Release by applying voltage to the interlocking solenoid.

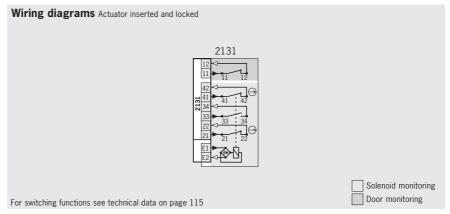
STP4 Open-circuit current principle, guard locking by applying voltage to the interlocking solenoid. Release by spring force.

Switching elements

▶2131 Slow-action switching element $2 \text{ NC} \oplus + 1 \text{ NO} + 1 \text{ NC}$ (door monit. contact)

Cable entry M20 x 1.5





ordering table									
Series	Connection	Guard locking	Switching element	Version	Solenoid operating voltage AC/DC 24 V				
		2	2131		099 973 STP-TW-3A-2131AC024M				
	M Cable	Mechanical	2 Ö → + 1 S + 1 Ö	with mechanical key release (identical locking)	098 827 STP-TW-3A-2131AC024M-S1				
STP-TW	entry M20x1,5	4	2131		100 849 STP-TW-4A-2131AC024M				
		Electrical	2 Ö → + 1 S + 1 Ö	with mechanical key release (identical locking)	100 850 STP-TW-4A-2131AC024M-S1				