

ITEM 122813 CTP-L1-AR-U-HA-AE-SAB-122813

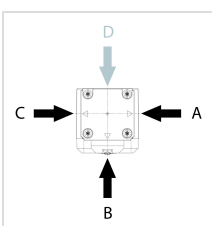
Description	Technical data	Accessories	Downloads
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Features

- › Safety switch with guard locking and integrated evaluation electronics
- › Up to 20 switches in series
- › Short circuit monitoring
- › 2 safety outputs (semiconductor outputs)
- › Up to category 4/PL e according to EN ISO 13849-1
- › With 2 plug connectors M12
- › Unicode
- › Door monitoring output
- › With escape release
- › Approach direction A, B and C (default setting on delivery)

Approach direction



› Figure
Horizontal

Can be adjusted in 90° steps

Unicode evaluation

Each actuator is unique. The switch detects only taught-in actuators. Additional actuators can be taught in. Only the last actuator taught in is detected.

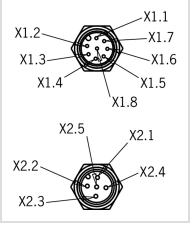


Guard locking type

CTP-L1 Guard locking actuated by spring force applied and power-ON released (closed-circuit current principle)

Escape release

This is used for manual release of guard locking from within the danger area without tools.

Connector assignment

Plug connector (view of connection side)	Pin	Designation	Function	Conductor coloring of connection cable
	X 1.1	FI1B	Enable input for channel 2	WH
	X 1.2	UB	Operating voltage AR electronics, 24 V DC	BN
	X 1.3	FO1A	Safety output, channel 1 	GN
	X 1.4	FO1B	Safety output, channel 2 	YE
	X 1.5	OL	Guard locking monitoring output	GY
	X 1.6	FI1A	Enable input for channel 1	PK
	X 1.7	0 V UB	Operating voltage AR electronics 0 V	BU
	X 1.8	RST	Reset input	RD
	X 2.1	IMM	Operating voltage of guard locking solenoid 0 V	BN
	X 2.2	OD	Door monitoring output	WH
	X 2.3	OI	Diagnostics output	BU

Plug connector (view of connection side)	Pin	Designation	Function	Conductor coloring of connection cable
	X 2.4	IMP	Operating voltage of guard locking solenoid, 24 V DC	BK
	X 2.5	-	n.c.	GY

Approvals



Mechanical values and environment

Housing material	
Switch head cover	Die-cast zinc
Safety switch housing	Fiber glass reinforced thermoplastic
Weight	
Net	0,42 kg
Ambient temperature	
At $U_B = 24V DC$	-20 ... +55 °C
Degree of protection	IP67 / IP69 / IP69K [1]
Resilience to vibration	In acc. with EN IEC 60947-5-3
Mechanical life	1×10^6
Installation position	Any
Ready delay	8 s
Switching frequency	max.0,5 Hz
Connection	2 plug connectors M12, 5 and 8-pin
Approach speed	20 m/min
Guard locking principle	Closed-circuit current principle
Locking force F_{max}	3900 N
Locking force F_{Zh}	3000 N [2]
Retention force	20 N
Extraction force	20 N
Actuating force	10 N
Overtravel	5 mm

Electrical connection ratings

Test-pulse interval	min.140 ms
Test pulses	max.1,0 ms [3]
Operating voltage DC	

	U_{UB}	24 V DC -15% ... 15% Reverse polarity protected, regulated, residual ripple < 5%, PELV
Current consumption	I_{UB}	40 mA
	I_{IMP}	400 mA
Utilization category according to EN 60947-5-2	DC-13	24V 150mA ^[4]
Solenoid operating voltage DC	U_{IMP}	24 V DC -15% ... +10% Reverse polarity protected, regulated, residual ripple < 5%, PELV
Fusing		
External (operating voltage U_B)		0,25 ... 2 A
External (solenoid operating voltage U_{IMP})		0,5 ... 8 A
Rated insulation voltage U_i		max.50 V
Rated impulse withstand voltage U_{imp}		max.0,5 kV
Power consumption		6 W
EMC protection requirements		In acc. with EN IEC 60947-5-3
Solenoid duty cycle		100 %
Degree of contamination (external, according to EN 60947-1)		3
Safety class	EN IEC 61140	III
Risk time according to EN 60947-5-3		
Delay per device		5 ms
Single device		max.260 ms
Switching load	According to UL	24V DC, class 2 ^[5]
Safety outputs FO1A / FO1B		
Type of output		2 semiconductor outputs, p-switching, short circuit-proof
Switching current	Per safety output FO1A / FO1B	1 ... 150 mA
Output voltage	High $U(FO1A)$ / $U(FO1B)$	$U_B - 1,5 \dots U_B$ V DC
	Low $U(FO1A)$ / $U(FO1B)$	0 ... 1 V DC
Off-state current I_r		max.0,25 mA
Switch-on time		max.400 ms
Discrepancy time	Both safety outputs	In acc. with EN IEC 60947-5-3 max.10 ms
Monitoring output OL		
Type of output		p-switching, short circuit-proof
Switching current		1 ... 50 mA
Output voltage		0,8x U_B ... U_B V DC
Monitoring output OD		
Type of output		p-switching, short circuit-proof
Switching current		1 ... 50 mA

Output voltage	0,8xUB ... UB V DC
	Monitoring output OI
Type of output	p-switching, short circuit-proof
Switching current	1 ... 50 mA
Output voltage	0,8xUB ... UB V DC

Operating distance

Repeat accuracy R	
According to EN 60947-5-2	10 %

Miscellaneous

Additional feature	Escape release actuated by pushing
For the approval according to UL the following applies	Operation only with UL class 2 power supply, or equivalent measures see operating instructions

Reliability values acc. to EN ISO 13849-1

Performance Level	PL e
Category	4
PFH _D	4.1×10^{-9}
Mission time	20 y

[1] Screwed tight plug connector/mating component

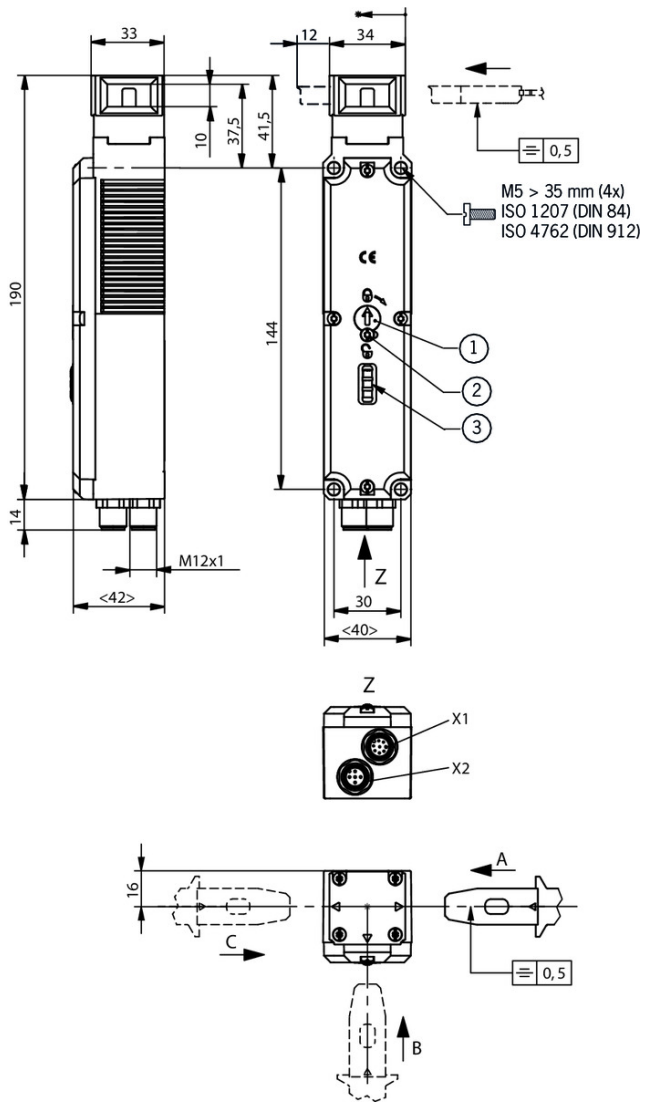
[2] $F_{zh} = F_{max}/1.3$ Depending on the actuator used

[3] Applies for a load with $C \leq 30nF$ and $R \leq 20k\Omega$

[4] Caution: outputs must be protected with a free-wheeling diode in case of inductive loads

[5] Alternatively see operating instructions

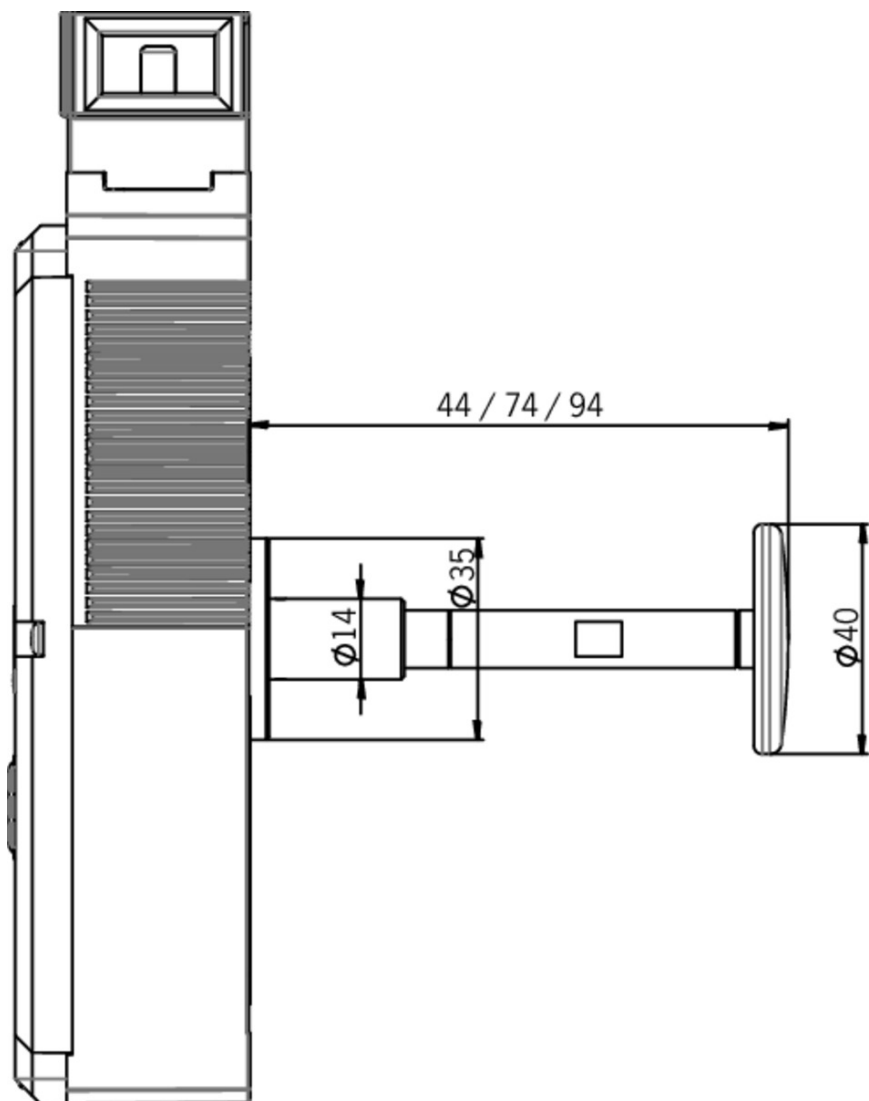
Dimension drawing



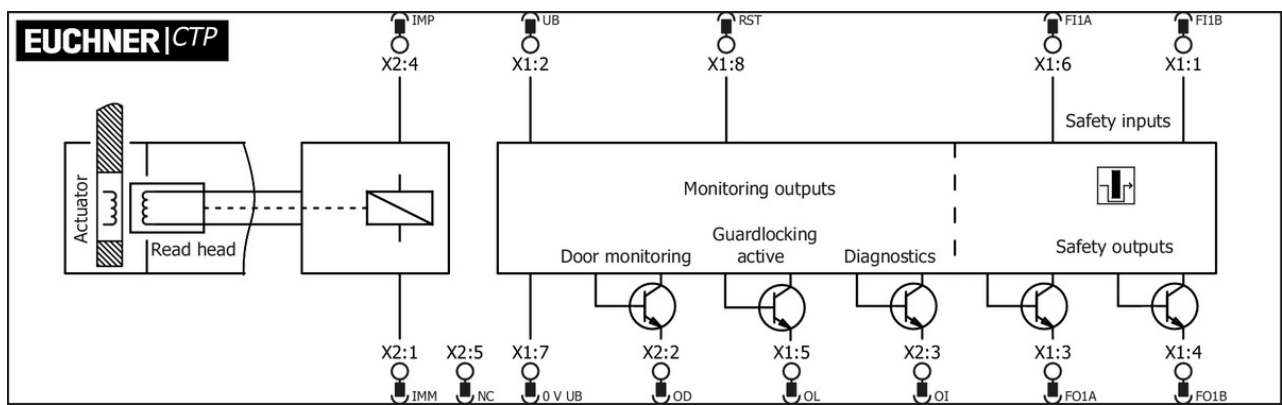
Legende

- 1 Auxiliary release
- 2 Locking screw
- 3 LEDs

Dimension drawing



Wiring diagram



Actuator

✓ Bent actuator for safety switches CTP



122667 A-C-H-W-SST-122667

✓ Features

- › Actuator bent at top
- › Two safety screws included



122668 A-C-H-W-SST-122668

✓ Features

- › Actuator bent at bottom
- › Two safety screws included

✓ Hinged actuator for safety switch CTP



122675 A-C-H-RO-LS-122675

✓ Features

- › Hinged actuator for doors hinged at the top
- › Two safety screws included



122676 A-C-H-RU-LS-122676

✓ Features

- › Hinged actuator for doors hinged at the bottom
- › Two safety screws included



122671 A-C-H-RL-LS-122671

✓ Features

- › Hinged actuator for doors hinged on the left
- › Two safety screws included



122672 A-C-H-RR-LS-122672

✓ Features

- › Hinged actuator for doors hinged on the right
- › Two safety screws included

✓ Straight actuator for safety switch CTP



126015 A-C-H-G-SST-126015

✓ Features

- › Straight actuator
- › Two safety screws included

Function expansion

✓ Lockout mechanism CTP



123411 AE-L-C-H-123411

✓ Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks

✓ Lock for auxiliary release for safety switches CTP/TP/STP



086236 SCHLOSS TP GLEICHSCHLIESSEND

✓ Features

- › Identical locking
- › Key removable in “unlocked” and “locked” positions



084177 SCHLOSS TP VERSCHIEDENSCHLIESSEND

✓ Features

- › Lock unique locking
- › Key removable in “unlocked” and “locked” positions



109212 SCHLOSS TP GLEICHSCHLIESSEND C2293

✓ Features

- › Identical locking
- › Key can be removed only in “locked” position

✓ Emergency unlocking for safety switches CTP/TP/STP



099877 NOTENTSPERRUNG TP/STP

✓ Release with automatic reset for safety switches CTP/TP/STP



103110 ENTRIEGELUNG RUECKSTELLEND TP/STP

✓ Wire front release



111233 AE-B-A1-03,0-F-111233

✓ Features

- › Can be used as escape release or emergency unlocking
- › automatic return
- › Sheath length 3 m (rope length 6 m)



096230 AE-B-A1-02,0-096230

✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 2 m (rope length 6 m)



097747 AE-B-A1-02,0-F-097747

✓ Features

- › Can be used as escape release or emergency unlocking
- › automatic return
- › Sheath length 2 m (rope length 6 m)



098313 AE-B-A1-03,0-098313

✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 3 m (rope length 6 m)



098314 AE-B-A1-04,0-098314

✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Sheath length 4 m (rope length 6 m)



124770 AE-B-A1-06,0-F-124770

✓ Features

- › Can be used as escape release or emergency unlocking
- › automatic return
- › Rope length 6 m (without sheath)



125582 AE-B-A1-06,0-125582

✓ Features

- › Can be used as escape release or emergency unlocking
- › No automatic return
- › Rope length 6 m (without sheath)

✓ Handle for wire front release



099795 AY-HDL-099795

✓ Features

- › Suitable for all wire front releases



124204 AY-HDL-124204

✓ Features

- › Suitable for all wire front releases

Mounting accessories

✓ Mounting plates EMP-SB for safety switches CTP, TP...A, STA, STP and TX



093456 EMP-SB

✓ Features

- › For vertical and horizontal mounting of safety switches TP...A, STA, STP and TX

✓ Mounting plates EMP-B1 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



093457 EMP-B1

✓ Mounting plates EMP-B2 for actuators for safety switches CTP, TP...A, STA, STP, TX and TZ



093458 EMP-B2

▼ Mounting plates AM-P for safety switches CTP



126026 AM-P-126026

▼ Features

- › For vertical and horizontal mounting of safety switch CTP

Connection material

▼ Passive distribution module



120861 AC-DP-04-SA-120861

▼ Features

- › Connection of up to 4 CES-AR, CET-AR, CTP-AR and ESL-AR
- › LEDs for the indication of the door position on each port
- › Can be connected in series

▼ M12 extension PUR 5-pin, plug connectors at both ends, 10m



115565 C-M12F05-05X025PU10,0-M12M05-115565

▼ Features

- › M12 female plug, 5-pin (angled) to M12 plug connector (straight)
- › Connectors at both ends
- › PUR cable
- › Cable length 10 m
- › With cable exit A (right)



115566 C-M12F05-05X025PU10,0-M12M05-115566

▼ Features

- › M12 female plug, 5-pin (angled) to M12 plug connector (straight)
- › Connectors at both ends
- › PUR cable
- › Cable length 10 m
- › With cable exit C (left)

▼ Connection cable with angled plug connector M12, 5-pin, 10m



113190 C-M12F05-05X025PU10,0-MA-113190

▼ Features

- › M12 female plug, 5-pin
- › Angled plug connector
- › PUR cable
- › Cable length 10 m
- › Cable exit C (left)
- › With flying lead



113187 C-M12F05-05X025PU10,0-MA-113187

▼ Features

- › M12 female plug, 5-pin
- › Angled plug connector
- › PUR cable
- › Cable length 10 m

- › Cable exit A (right)
 - › With flying lead
-

▼ Connection cable with angled plug connector M12, 8-pin, 10m



113189 C-M12F08-08X025PU10,0-MA-113189

▼ Features

- › M12 female plug, 8-pin
 - › Angled plug connector
 - › Cable outlet C (left)
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-



113188 C-M12F08-08X025PU10,0-MA-113188

▼ Features

- › M12 female plug, 8-pin
 - › Angled plug connector
 - › Cable outlet A (right)
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with 2 plug connectors M12, 5-pin, 20m



100182 C-M12F05-05X034PV20,0-M12M05-100182

▼ Features

- › M12 female plug to M12 plug connector, 5-pin
 - › Straight female plug and plug connector
 - › PVC cable
 - › Cable length 20 m
-



119971 C-M12F05-05X034PU20,0-M12M05-119971

▼ Features

- › M12 female plug to M12 plug connector, 5-pin
 - › Straight female plug and plug connector
 - › PUR cable
 - › Cable length 20 m
-

▼ Connection cable with plug connector M12, 5-pin, 20m



100185 C-M12F05-05X034PV20,0-MA-100185

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 20 m
 - › With flying lead
-

▼ Connection cable with plug connector M12, 5-pin, 10m



100184 C-M12F05-05X034PV10,0-MA-100184

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with straight plug connector M12, 5-pin, 5m



100183 C-M12F05-05X034PV05,0-MA-100183

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 5 m
 - › With flying lead
-



113620 C-M12F05-05X034PU05,0-MA-113620

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Connection cable with plug connector M12, 8-pin, 20m



115114 C-M12F08-08X025PU20,0-MA-115114

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 20 m
 - › With flying lead
-



100179 C-M12F08-08X025PV20,0-MA-100179

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 20 m
 - › With flying lead
-

▼ Connection cable with straight plug connector M12, 5-pin, 10m



113640 C-M12F05-05X034PU10,0-MA-113640

▼ Features

- › M12 female plug, 5-pin
- › Straight plug connector
- › PUR cable
- › Cable length 10 m

- › With flying lead
-

- ▼ Connection cable with straight plug connector M12, 5-pin, 20 m



113682 C-M12F05-05X034PU20,0-MA-113682

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 20 m
 - › With flying lead
-

- ▼ Connection cable with straight plug connector M12, 5-pin, 30 m



122784 C-M12F05-05X034PU30,0-MA-122784

▼ Features

- › M12 female plug, 5-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 30 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M12, 8-pin, 30m



115257 C-M12F08-08X025PU30,0-MA-115257

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 30 m
 - › With flying lead
-



115116 C-M12F08-08X025PV30,0-MA-115116

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 30 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M12, 8-pin, 10m



115113 C-M12F08-08X025PU10,0-MA-115113

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-



100178 C-M12F08-08X025PV10,0-MA-100178

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-

▼ Connection cable with plug connector M12, 8-pin, 5m



115112 C-M12F08-08X025PU05,0-MA-115112

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-



100177 C-M12F08-08X025PV05,0-MA-100177

▼ Features

- › M12 female plug, 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Y-distributor M12 with connection cable



111696 Y-VERTEILER M12 MIT ANSCHLUSSKABEL

▼ Features

- › Y-distributor M12 with connection cable, 2 x 5-pin, 1 x 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 0.2 m
-



112395 Y-VERTEILER M12 MIT 1M KABEL

▼ Features

- › Y-distributor M12 with connection cable, 2 x 5-pin, 1 x 8-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 1 m
-

▼ Bridging plug M12



097645 BRUECKEN-STECKER

▼ Features

- › Bridging plug
 - › M12 male plug, 4-pin
-

▼ Connection cable with 2 plug connectors M12, 10m

123433 C-M12M08-08X025PV10,0-M12F08-123433



- ✓ Features
 - › 8-pin M12 male plug, straight
 - › 8-pin M12 female connector, straight
 - › PVC cable
 - › Cable length 10m
-

- ✓ Connection cable with 2 plug connectors M12, 5m



- 123432** C-M12M08-08X025PV05,0-M12F08-123432
 - ✓ Features
 - › 8-pin M12 male plug, straight
 - › 8-pin M12 female connector, straight
 - › PVC cable
 - › Cable length 5m
-

- ✓ Connection cable with 2 plug connectors M12, 2m



- 123431** C-M12M08-08X025PV02,0-M12F08-123431
 - ✓ Features
 - › 8-pin M12 male plug, straight
 - › 8-pin M12 female connector, straight
 - › PVC cable
 - › Cable length 2m
-

- ✓ Connection cable with 2 plug connectors M12, 1m



- 123430** C-M12M08-08X025PV01,0-M12F08-123430
 - ✓ Features
 - › 8-pin M12 male plug, straight
 - › 8-pin M12 female connector, straight
 - › PVC cable
 - › Cable length 1m
-

- ✓ Connection cable with 2 plug connectors M12, 5-pin, 5m



- 100180** C-M12F05-05X034PV05,0-M12M05-100180
 - ✓ Features
 - › M12 female plug to M12 plug connector, 5-pin
 - › Straight female plug and plug connector
 - › PVC cable
 - › Cable length 5 m
-



- 119932** C-M12F05-05X034PU05,0-M12M05-119932
 - ✓ Features
 - › M12 female plug to M12 plug connector, 5-pin
 - › Straight female plug and plug connector
 - › PUR cable
 - › Cable length 5 m
-

- ✓ Connection cable with 2 plug connectors M12, 5-pin, 10m



100181 C-M12F05-05X034PV10,0-M12M05-100181

✓ Features

- › M12 female plug to M12 plug connector, 5-pin
- › Straight female plug and plug connector
- › PVC cable
- › Cable length 10 m



119947 C-M12F05-05X034PU10,0-M12M05-119947

✓ Features

- › M12 female plug to M12 plug connector, 5-pin
- › Straight female plug and plug connector
- › PUR cable
- › Cable length 10 m

✓ Connection cable with angled plug connector M12, 8-pin, 20m



120999 C-M12F08-08X025PU20,0-MA-120999

✓ Features

- › M12 female plug, 8-pin
- › Angled plug connector
- › Cable outlet C (left)
- › PUR cable
- › Cable length 20 m
- › With flying lead



120998 C-M12F08-08X025PU20,0-MA-120998

✓ Features

- › M12 female plug, 8-pin
- › Angled plug connector
- › Cable outlet A (right)
- › PUR cable
- › Cable length 20 m
- › With flying lead

Bolt

✓ Bolts with escape release for safety switch CTP



123655 RIEGEL CTP-ACF-123655

✓ Features

- › Steel bolt
- › Lever for escape release from the danger area
- › For doors hinged on right and left
- › Detent knob in open position
- › Can be locked in open position with padlocks
- › Actuator included

✓ Bolt BTC-CTP with escape release for safety switch CTP

123660 BTC-CTP-S-TH-01-F

✓ Features



- › Aluminum bolt
- › For doors hinged on the left or right
- › Lever for escape release from the danger area
- › Pushbutton in open position
- › Can be locked in open position with padlocks
- › Actuator included

▼ Bolt CTP-GFK-F with escape release for safety switch CTP



123658 RIEGEL CTP-GFK-F

▼ Features

- › Fiber glass reinforced plastic bolt
- › For doors hinged on the left or right
- › Lever for escape release from the danger area
- › Detent knob in open position
- › Can be locked in open position with padlocks
- › Actuator included

Instructions

▼ Bezpečnostní informace CTP (-AR/-AP)

	Doc. no.	Version	Language	Download
Sicherheitsinformation CTP (-AR/-AP)	2138087	02-11/17		0.7 MB
Información de seguridad CTP (-AR/-AP)				
Information de sécurité CTP (-AR/-AP)				
Informazioni sulla sicurezza CTP (-AR/-AP)				
Safety Information CTP (-AR/-AP)				
Bezpečnostní informace CTP (-AR/-AP)	2138087	02-11/17		0.2 MB
安全情報 CTP (-AR/-AP)	2138087	02-11/17		0.3 MB
Informação de segurança CTP (-AR/-AP)	2138087	02-11/17		0.2 MB
Информация о безопасности CTP (-AR/-AP)	2138087	02-11/17		0.3 MB
Güvenlik bilgisi CTP (-AR/-AP)	2138087	02-11/17		0.3 MB
安全信息 CTP (-AR/-AP)	2138087	02-11/17		0.3 MB

▼ 操作指示書トランスポンダー型コード化安全スイッチ ガードロック内蔵CTP-AR ユニコード/マルチコード

	Doc. no.	Version	Language	Download
Betriebsanleitung Transpondercodierter Sicherheitsschalter mit Zuhaltung CTP-AR Uni-/Multicode	2123041	06-05/18		4.5 MB
Mode d'emploi Interrupteur de sécurité à codage par transpondeur avec interverrouillage CTP-AR uni-/multicode	2123041	06-05/18		4.5 MB
Manual de instrucciones Interruptor de seguridad con codificación por transponder con bloqueo CTP-AR Unicode/Multicode	2123041	06-05/18		4.5 MB

操作指示書トランスポンダー型コード化安全スイッチ ガードロック内蔵CTP-AR ユニコード/マルチコード	2123041	06-05/18		4.8 MB
Návod k použití Bezpečnostní spínač s kódovaným transpondérem CTP-AR Unicode/Multicode	2123041	06-05/18		4.7 MB
Operating instructions Transponder-Coded Safety Switch With Guard Locking CTP-AR Unicode/Multicode	2123041	06-05/18		4.5 MB
Istruzioni di impiego Finecorsa di sicurezza con codifica a transponder con meccanismo di ritenuta CTP-AR Uni-/Multicode	2123041	06-05/18		4.5 MB

Catalogs

▼ ガード・ロック付き トランスポンダー・コード化 安全ス イッチCTP

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Transponder-coded safety switches - Interlocking devices and guard locking devices	127595	02-01/18		 5.1 MB

Application example

Anschluss CTP-L1..-AR an Siemens ET 200S






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Anschluss CTP-L1..-AR in Reihe an Siemens ET 200S

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Connection of serial wired CTP-L1..-AR to Siemens ET 200S	AP000212	02-03/16		 0.5 MB

Declaration of conformity

EU-Konformitätserklärung

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CAD data

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