Description

E-T-A's ESX10-T electronic circuit protector is only 12.5 mm wide and selectively protects all DC 24 V load circuits, thereby increasing the uptime of machines and systems. This is achieved by a combination of active electronic current limitation in the event of a short circuit and overload disconnection typically from 1.1 times rated current. The ESX10-T responds faster than frequently used DC 24 V switch mode power supplies without tripping fast and thus prevents disastrous voltage dips of the supply. It works with a single trip curve for all loads. Even capacitive loads up to 75,000 μF can be handled very easily. Besides fixed current ratings from 0.5 A to 12 A, adjustable current rating versions are also available. The integral fail-safe element (fuse) is adjusted to the circuit protector's rated current and can thus very easily be synchronised with the wired cable cross section. This makes planning much easier.



Features

- Track-mountable
- Active linear current limitation
- Capacitive loads up to 75,000 μF
- ESX10-TA/-TB: fixed current ratings 0.5 A...12 A
- ESX10-TD: adjustable current ratings, e.g. [0,5 A / 1 A / 2 A];
 [2 A / 4 A / 6 A];
 [6 A / 8 A / 10 A]
- Approvals: UL, CSA, GL
- OPTION: Control inputs, signalling
- OPTION: ATEX approval

Your benefits

- Increases machine uptime through clear failure detection and stable power supply
- Reduces downtimes through quick fault resolution
- Simplifies planning through clear sizes and ratings
- Saves costs and time through fast and flexible mounting including integral power distribution solution

Preferred types - for more details on all configurations please see order numbering code

Preferred types are E-T-A products most frequently used by E-T-A customers. We manufacture E-T-A preferred types in particularly high

volumes. Our preferred types are supplied at shorter lead times than non-standard versions.

Preferred types	Short description	Preferr	Preferred ratings (A)										
ESX10-TA/-TB	fixed current rating	0.5	1	2	3	4	6	8	10	12	0.5/1/2	2/4/6	6/8/10
ESX10-TA-100-DC24V-	without auxiliary contacts	•	•	•	•	•	•	•	•	•	-	-	-
ESX10-TB-101-DC24V-	auxiliary contact "make contact"					•	•	•	-	-	-		
ESX10-TD	adjustable current rating	0.5	1	2	3	4	6	8	10	12	0.5/1/2	2/4/6	6/8/10
ESX10-TD-101-DC24V-	auxiliary contact "make contact"	-	-	-	-	_	-	-	-	-	•	•	•

Approvals













Information online

For access to the latest documents please follow:

http://www.e-t-a.de/qr1006/



Compliances



Technical data (T	_{amb} = 25 °C, U _B = DC 24 V)
Operating data	
Operating voltage U _B	DC 24 V (1832 V)
Current ratings I _N	fixed rating: Types ESX10-TA and -TB: 0.5 A, 1 A, 2 A, 3 A, 4 A, 6 A, 8 A, 10 A, 12 A adjustable current ratings: type ESX10-TD: [0.5 A/1 A/2 A], [2 A/4 A/6 A], [6 A/8 A/10 A]
Standby current I ₀	in ON condition: typically 20 30 mA depending on signal output
Visual status indication via	 multicoloured LED: green: device is ON (S1 = ON) load circuit/Power-MOSFET connected orange: overload or short circuit until electronic disconnection red: device switched OFF electronically load circuit/Power-MOSFET disconnected undervoltage (U_B < 8 V) after switch-on until the end of the switch-on delay period OFF: manually switched off (S1 = OFF) or device is dead-voltage status output SF (optional) potential-free signal contact F (optional)
Load circuit	On/off position of the switch S1
Load output	power MOSFET switching output (plus switching)
Overload disconnection (OL) typically 1.1 x I _N (1.051.35 x I _N)
Short circuit current I _K	active current limitation with I_{Limit} = typically 1.8/1.5/1.4/1.3 x I_{N} , I_{Limit} depending on I_{N} (typically I_{Limit} - values, see table 1)
Trip times	see time/current characteristic
Trip thresholds/trip times (t_1 , t_2) at overcurrent (I_{Limit} see table 1)	1. threshold: at I_{load} > typically 1.1 x I_{N} I_{Limit} : t_1 = typically 3 s 2. threshold: at I_{load} = I_{Limit} : t_2 = typically 100 ms3 s
Temperature disconnection	internal temperature monitoring with electronic disconnection
Low voltage monitoring of load output	with hysteresis, no reset required load "OFF" at U _B < 8 V
Switch-on delay t _{Start} after applying of U _B	typically 0.5 s after each ON operation, after reset and
Disconnection of load circuit	electronic disconnection after overload/short circuit

Technical data (Ta	_{mb} = 25 °C, U _B = DC 24 V)
Free-wheeling diode	external free-wheeling diode recommended for inductive load
Parallel connection of sevenot permitted	eral load outputs
Signal output F	ESX10-T101/-102
Electrical data	potential-free auxiliary change-over contact max. DC 30 V/0.5 A min. 10 V/10 m/
Standard condition LED green	U _B is applied and switch S1 is ON and no overload, no short circuit
OFF condition, LED off	 device switched off (switch S1 to OFF) no operating voltage U_B
Fault condition LED orange electronic disconnection	overload conditions > 1.1 times I _N until
Fault condition LED red	electronic disconnection after overload or short circuit
ESX10-TB-101	single signal, make contact contact open, terminal 13-14
ESX10-TB-102	single signal, make contact contact closed, terminal 11-12
Error	signal output is in fault condition, if there is no operating voltage U _B the ON/OFF switch S1 is in OFF posi-
tion	the red LED is lighted (electronic disconnection)
Status output SF	ESX10-T114/-124/-127
Electrical data	plus switching signal output, connects U_B to pin 23 Current ratings: DC 24 V/max. 0.2 A (short circuit proof) The status output is connected internally with a 10 kOhm resistor against 0 V.
Status OUT	ESX10-TB-114/-124 (signal status OUT), at $U_B = +24 \text{ V}$ + 24 V = S1 is ON, load output connecte 0 V = S1 is ON, load output locked and/ or switch S1 is OFF red LED lighted
Status OUT	ESX10-TB-127 (signal status OUT inverted), at U _B = + 24 V + 24 V = S1 is ON, load output locked red LED lighted. 0 V = S1 is ON, load output connected and/or switch S1 is OFF.
OFF condition	 0 V level at status output whenever: switch S1 is in ON position, but device is still in ON delay switch S1 in OFF position, or control signal OFF, device is switched off No operating voltage U_B
Reset input RE	ESX10-T124/-127
Electrical data	voltage max. DC 32 V High > DC 8 V \leq DC 32 V Low < DC 3 V > 0 V current consumption typically 2.6 mA (DC 24 V) min. pulse duration 10 ms

Technical data (Ta	amb = 2	25 °C,	U _B =	= DC 24 V)
Reset signal RE terminal 22	pulse the ESX10-external signal cone device.	ne elect TB-124 Il mome can also vice at a	ronica /-127 ntary be apa time	of a + DC 24 V ally blocked can be reset via an switch. A joint reset oplied to more than . Devices in ON unaffected.
Control input I _N +	ESX10-	-T-114		
Electrical data	as rese	t input f	RE	
Control signal I _N + by a Terminal 21	remote 0 V leve	ON/OF	F sigr) devi	ce is switched off by
Switch S1 ON/OFF a HIGH level is applied to	device I _N +	can only	y be S	S1 switched on when
LED indication	ON: OFF:	LED g LED re		
General data				
Fail-safe element	due to	an integ	ral re	X10-T <u>not required,</u> dundant fail-safe element)
Terminals	LINE+	/ LOAD	+ / 0\	1
screw terminals max. cable cross section rigid and flexible flexible with wire end ferre plastic sleeve stripping length tightening torque (EN6093 multi-lead connection (2 identical cables) rigid / flexible flexible with wire end ferre without plastic sleeve flexible with TWIN wire er with plastic sleeve	34) ule	M4 0.5 - 1 0.5 mr 10 mr 1.5 - 1 0.5 - 2 0.5 - 2 0.5 - 6	m – 10 n .8 Nn 1 mm ²) mm ² n : m ²
Terminals	signal			
Screw terminals max. cable cross section flexible with wire end ferro plastic sleeve stripping length tightening torque (EN6093)	ule w/wo 34)	M3 0.25 – 8 mm 0.5 - 0	2.5 n	
Housing material	moulde			
Mounting Ambient temperature	-2560 (withou) °C ¹⁾ t conde ent tem	nsatio perati	N 60715-35x7.5 on, cf. EN 60204-1) ure range can differ
Storage temperature	-4070		appro	vais.
Humidity	96 hrs / IEC 600	/ 95% F 068-2-7	8, tes	
Vibration	3g test	to IEC	60068	8-2-6, test Fc
Protection class	housing termina	j IP20 E Ils IP20	N605 DIN 6	29 60529

Technical data (Ta	_{imb} = 25 °C, U _B = DC 24 V)
EMC requirements (EMC directive, CE marking)	noise emission EN 61000-6-3 noise immunity: EN 61000-6-2
Insulation co-ordination (IEC 60934)	0.5 kV / pollution degree 2 reinforced insulation at operating area
Dielectric strength	max. DC 32 V (load circuit)
Insulation resistance (OFF condition:)	n/a, only electronic disconnection
Conformity	CE marking to 2014/30/EU
Dimensions (w x h x d)	12.5 x 80 x 83 mm
Mass	approx. 65 g

Preferred types

Preferred types are E-T-A products most frequently used by E-T-A customers. We manufacture E-T-A preferred types in particularly high

volumes. Our preferred types are supplied at shorter lead times than non-standard versions.

Preferred types	Short description	Preferr	Preferred ratings (A)										
ESX10-TA/-TB	fixed current rating	0.5	1	2	3	4	6	8	10	12	0.5/1/2	2/4/6	6/8/10
ESX10-TA-100-DC24V-	without auxiliary contacts	•	•	•	•	•	•	•	•	•	-	-	-
ESX10-TB-101-DC24V-	auxiliary contact "make contact"	•	•	•	•	•	•	•	•	•	-	-	-
ESX10-TD	adjustable current rating	0.5	1	2	3	4	6	8	10	12	0.5/1/2	2/4/6	6/8/10
LOXIO-ID	auxiliary contact	0.5	•		3	7		8	10	12	0.0/1/2	2/4/0	0/3/10
ESX10-TD-101-DC24V-	"make contact"	-	-	-	-	-	-	-	-	-	•	•	•

Order numbering code

Type No. ESX10 Electronic Circuit Protector, with current limitation Mountin TA rail mounting, without aux. contact TB rail mounting, with signal contact and hole for signal busbars Version: rail mounting, with auxiliary contact and slide actuation for 3-step current rating adjustment without physical isolation Signal input without signal input with control input IN+ (only ESX10--114) reset input RE (only -124, -127) Signal output without signal output (only ESX10-TA) signal make contact signal break contact status output SF (only -114, -124) status output inverted (only ESX10-T-127) Operating voltage DC 24 V voltage rating DC 24 V **Current ratings** 0.5 A 1 A 2 A 3 A 6 A 10 A 16 A (only ESX10-TB-101) 0.5/1/2 A adjustable (only ESX10-TD-...-X278) 2/4/6 A adjustable (only ESX10-TD-...-X279) 6/8/10 A adjustable (only ESX10-TD-...-X280) 2/3/4 A adjustable (only ESX10-TD-101-...-X282) ESX10 - TB - 1 0 1 - DC 24 V - 6 A ordering example

Caution!

Please observe separate data sheet for ESX10-TB-101-DC 24 V-16 A.

Description of ESX10-T signal inputs /outputs see wiring diagrams.

Custom designed versions

Looking for a version you cannot find in our ordering number code? Please get in touch. We will be pleased to find a solution for you.

Ordering number code for ATEX version ...-E

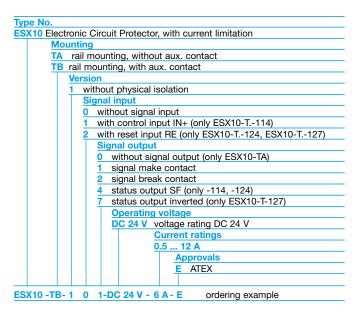
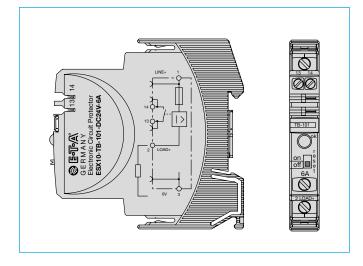


Table 1: Voltage drop, current limitation, max. load current

current rating I _N	typical voltage drop U _{ON} at I _N	active current limitation I _{Limit} (typ- ically)	max. load duty, U _B D T _{amb} = 40 ° T _{amb} = 60 °	°C T _U =	00% ON : 50 °C
0.5 A	70 mV	1,8 x IN	0.5 A	0.5 A	0.5 A
1 A	80 mV	1,8 x IN	1 A	1 A	1 A
2 A	130 mV	1,8 x IN	2 A	2 A	2 A
3 A	80 mV	1,8 x IN	3 A	3 A	3 A
4 A	100 mV	1,8 x IN	4 A	4 A	4 A
6 A	130 mV	1,8 x IN	6 A	6 A	6 A
8 A	120 mV	1,5 x IN	8 A	8 A	8 A
10 A	150 mV	1.5 x IN	10 A	10 A	9.8 A
12 A	180 mV	1.3 x IN	12 A	11 A	9.8 A
[0.5/1/2 A]	70/80/ 130 mV	1.4 x IN	0,5/1/2 A	0,5/1/2 A	0.5A/1A/2A
[2/3/4 A]	130/80/ 100 mV	1.4 x IN	2/3/4 A	2/3/4 A	2A/3A/4A
[2/4/6 A]	130/100/ 130 mV	1.4 x IN	2/4/6 A	2/4/6 A	2A/4A/6A
[6/8/10 A]	130/120/ 150 mV	1.4 x IN	6/8/10 A	6/8/10 A	6A/8A/9.8A

Connection diagram ESX10-TB-6A (example)



Note:

When mounted side-by-side without convection, the devices can only carry max. 80 % of their rated current continuously (100 % ON duty) due to the thermal effect.

Table 2: ESX10-T - product versions

Versio	n		Signal inp	ut	Signal output								
					Signa	l output F (sig	nal contact)		Status outpu	ıt SF			
ESX10		w/o	control input ON/OFF +24 V Control IN+	reset input +24 V ↓RE	w/o	single signal make contact (normally open NO)	single signal break contact (normally closed NC)	w/o	status OUT +24 V = OK	status OUT 0 V = OK			
-TA	-100	х	-	-	х	-	- '	х	-	-			
-TB/-TD	-101	х	_	-	-	х	-	х	-	-			
-TB/-TD	-102	х	-	-	-	-	х	х	-	-			
-TB/-TD	-114	-	х	-	-	_	-	_	х	-			
-TB/-TD	-124	-	-	х	х	-	-	-	х	-			
-TB/-TD	-127	-	-	х	х	-	-	-	-	х			

Notes

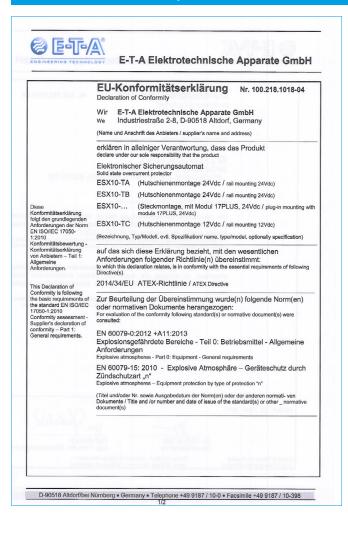
- The user has to ensure that the cable cross section of the load circuit in question complies with the current rating of the ESX10-T used.
- In addition special precautions have to be taken in the system or machinery to exclude automatic re-start (e.g. by using a safety PLC) (cf. Machinery Directive 2006/42/EG und EN 60204-1, Safety of Machinery). In the event of a failure (short circuit/overload) the load circuit will be disconnected electronically by the ESX10-T.



Approvals

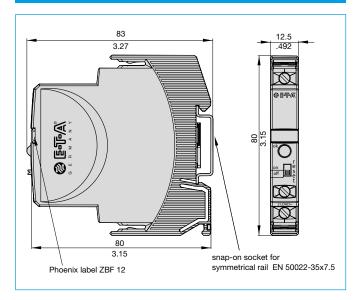
	E	SX10-TA/-TB und -TD		
Approval authority	Standard	File-Certificate Nr.	Voltage rating	Current rating range
UL	UL 2367	E306740	DC 24 V	0.5 A16 A
UL	ISA 12.12.01-2015 (Class I, Division 2, Groups A, B, C, D)	E320024	DC 24 V	0.5 A12 A
UL	UL 508 C22.2 No 14	E322549	DC 24 V	0.5 A16 A
DNV GL	Rules VI, part 7, GL 2012, category C, EMC1	4676212 HH	DC 24 V	0.5 A12 A
		ESX10-TA and -TB		
Approval authority	Standard	File-Certificate Nr.	Voltage rating	Current rating range
CSA	C22.2 No 14 C22.2 No 142M C22.2 No 213-M (Class I, Division 2)	016186	DC 24 V	0.512 A
TÜV	ATEX 2014/34/EU Annex VIII EN 60079-0 EN 60079-11 EN 60079-15	EX8111077862003	DC 24 V	

Declaration of Conformity for ATEX version ESX10-TA/-TB-...-E

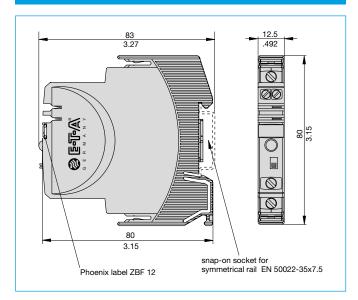




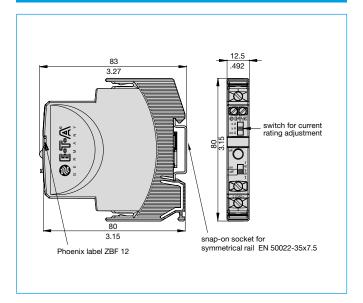
Dimensions ESX10-TA



Dimensions ESX10-TB



Dimensions ESX10-TD



Information on UL and CSA approvals

ESX10-TA/-TB/-TD

UL2367

Non-hazardous use - UL File # E306740

UI 508

Non-hazardous use UL File # E322549

E322549

INDUSTRIAL CONTROL EQUIPMENT



ESX10-TA / -TB

ISA 12.12.01-2015

UL File # E320024

Operating Temperature Code T4

This equipment is suitable for use in Class, Division 2, Groups A, B, C and D or non-hazardous locations only. T4 A / 0°C to 50°C

- Exposure to some chemicals may degrade the sealing properties of materials used in the following device: relay (K1)
 - Sealant Material:

Generic Name: Modified diglycidyl ether of bisphenol A

Supplier: Fine Polymers Corporation Epi Fine 4616L-160PK Type:

Casing Material:

Generic Name: Liquid Crystal Polymer Supplier: Sumitomo Chemical Type: E4008, E4009, or E6008

RECOMMENDATION:

Periodically inspect the device named above for any degradation of properties and replace if degradation is found

WARNING - EXPLOSION HAZARD: AVERTISSEMENT - RISQUE D'EXPLOSION

- Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous. Avant de deconnecter l'equipment, couper le courant ou s'assurer que l'emplacement est designe non dangereux.
- Substitution of any components may impair suitability for Class I, Division 2. La substitution de composants peut rendre ce materiel inacceptable pour les emplacements de class I, division 2.

This device is OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.

ESX10-TA / -TB

CSA C22.2 No: 14 - File # 016186

CSA C22.2 No: 142 - File # 016186

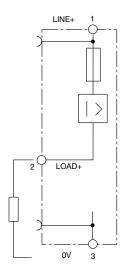
CSA C22.2 No: 213 (Class I, Division 2) - File # 016186

Meets requirement for Class 2 current limitation

(ESX10-T...-0.5 A / 1 A / 2 A / 3 A)

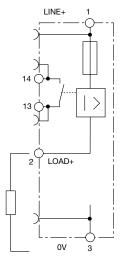
ESX10-T signal inputs / outputs / (wiring diagrams)

ESX10-TA-100 without signal input/output



ESX10-TB-101

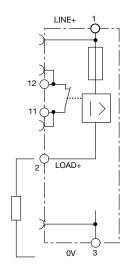
without signal input with signal output F (single signal, N/O)



operating condition: 13-14 closed fault condition: 13-14 open

ESX10-TB-102

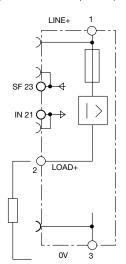
without signal input with signal output F (single signal, N/C)



operating condition: 11-12 open fault condition: 11-12 closed

ESX10-TB-114

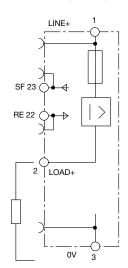
with control input IN+ (+DC 24 V) with status output SF (+24 V = load output ON)



operating condition: SF +24 V = OK fault condition: SF 0 V

ESX10-TB-124

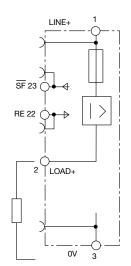
with reset input RE (+DC 24 V ↓) with status output SF (+24 V = load output ON)



operating condition: SF +24 V = OK fault condition:

ESX10-TB-127

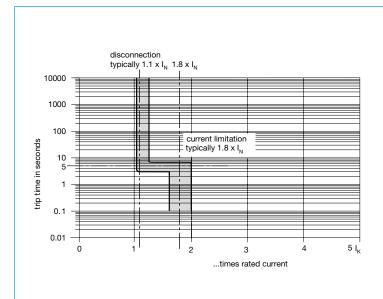
with reset input RE (+DC 24 V ↓) with inverse status output SF (0 V = load output ON)



operating condition: SF 0 V = OKfault condition: SF +24 V

Wiring diagram similar to ESX10-TB without busbars (on the front)

Typical time/current characteristic (T_{amb} = 25 °C)

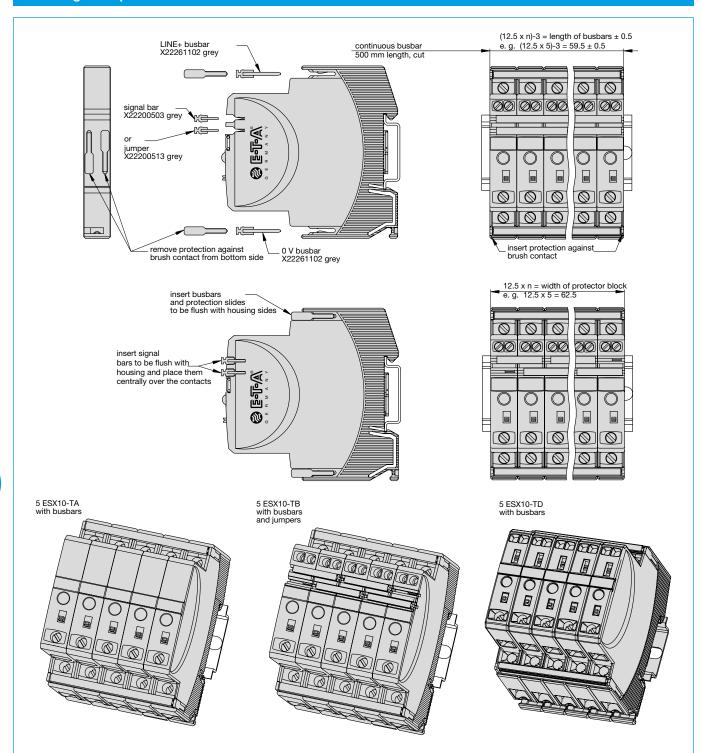


- In a range of 1.1...1.8 x I_N*1) the trip time is typically 3 s. (e.g. ESX10-TB-...-6 A)
- The electronic current limitation typically begins in at 1.8 x IN. This means: under all overload conditions (independent of power supply and load circuit resistance) typically 1.8 times rated current is applied until disconnection. The corresponding current limitation value I_{Limit} depends on the current rating of the device I_{N} (see table 1) The trip time varies between 100 ms and 3 s depending on the multiple of the current rating or at short circuit (I_K).
- Without the current limitation getting into effect at typically $1.8 \times I_N$ there would be a much higher overcurrent in the event of an overload or short circuit.

Table 3: Reliable disconnection of the ESX10-T

Reliable disconnection of the ESX10-T at diffe	rent cable	lengths and	l cable cros	s sections						
Resistivity copper ρ_0 = 0.0178 (Ohm x mm ²) / m										
U _B = DC 19.2 V (= 80 % v. 24 V)	Voltage d	rop on ESX	10-T and tol	erance of the)					
	shut-off point (typically 1.1 x I_N =1.051.35 x I_N) has already been taken into account.									
ESX10-T current rating adjustment I_N (in A) \rightarrow	3	6								
e. g. trip current $I_{ab} = 1.25 \times I_N$ (in A) \rightarrow	t $I_{ab} = 1.25 \times I_N \text{ (in A)} \rightarrow 3.75$ 7.5 \rightarrow ESX10-T trips after 3 s									
R_{max} in Ohm = (U _B / I _{ab}) - 0.050	5.07	2.51								
ESX10-T relia	bly trips fro	om 0Ω to t	he max. cir	cuit resistan	ice R _{max}					
cable cross section A in mm ² →	0.14	0.25	0.34	0.5	0.75	1	1.5			
distance L in metres (= one-way length)		to	tal cable re	sistance in	Ohm = (R ₀)	(2 x L) / A				
5	1.27	0.71	0.52	0.36	0.24	0.18	0.12			
10	2.54	1.42	1.05	0.71	0.47	0.36	0.24			
15	3.81	2.14	1.57	1.07	0.71	0.53	0.36			
20	5.09	2.85	2.09	1.42	0.95	0.71	0.47			
25	6.36	3.56	2.62	1.78	1.19	0.89	0.59			
30	7.63	4.27	3.14	2.14	1.42	1.07	0.71			
35	8.90	4.98	3.66	2.49	1.66	1.25	0.83			
40	10.17	5.70	4.19	2.85	1.90	1.42	0.95			
45	11.44	6.41	4.71	3.20	2.14	1.60	1.07			
50	12.71	7.12	5.24	3.56	2.37	1.78	1.19			
75	19.07	10.68	7.85	5.34	3.56	2.67	1.78			
100	25.34	14.24	10.47	7.12	4.75	3.56	2.37			
125	31.79	17.80	13.09	8.90	5.93	4.45	2.97			
150	38.14	21.36	15.71	10.68	7.12	5.34	3.56			
175	44.50	24.92	18.32	12.46	8.31	6.23	4.15			
200	50.86	28.48	20.94	14.24	9.49	7.12	4.75			
225	57.21	32.04	23.56	16.02	10.68	8.01	5.34			
250	63.57	35.60	26.18	17.80	11.87	8.90	5.93			
Example 1:	max. dista	ance at 1.5	mm² and 3 /	A → 214 m		·				
Example 2:	max. dista	ance at 1.5	mm² and 6	A → 106 m						
Example 3:	mixed wiring: R1 = 40 m in 1.5mm² 2 and R2 = 5 m in 0.25mm²: (control cabinet - sensor/actuator level)R1 = 0.95 Ohm, R2 = 0.71 Ohm Total (R1 + R2) = 1.66 Ohm					m				

Mounting examples for ESX10-T



Description of installation:

With a block of devices the busbars have to be inserted before wiring. Max. 10 plug-in cycles for busbars allowed.

Recommendation:

The line entry busbars and signal busbars should be interrupted after 10 devices and line entry should start anew.

Table of busbar lengths

(X 222 611 02 and X 222 005 03 or their cut lengths - see accessories)

Number of devices	2	3	4	5	6	7	8	9	10
Length of rail [mm] ± 0,5 mm	22	34.5	47	59.5	72	84.5	97	109.5	122

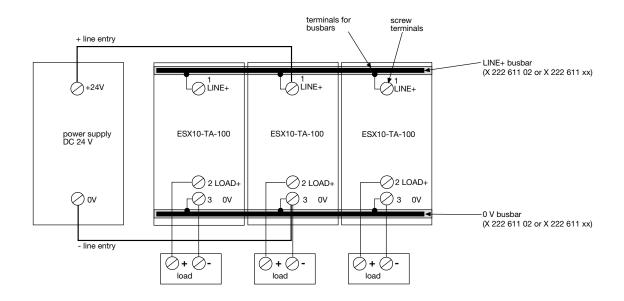


Wiring diagrams, application examples ESX10-T

Connection diagrams and application examples ESX10-T...

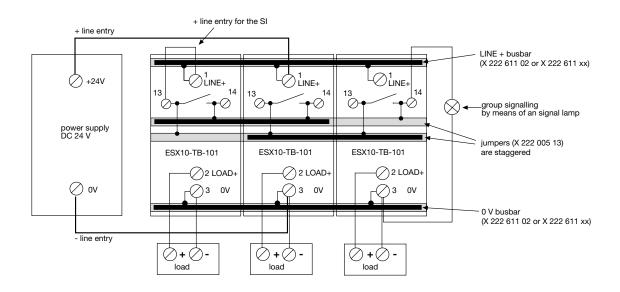
Signal contacts are shown in OFF or fault condition.

ESX10-TA-100



ESX10-TB-101

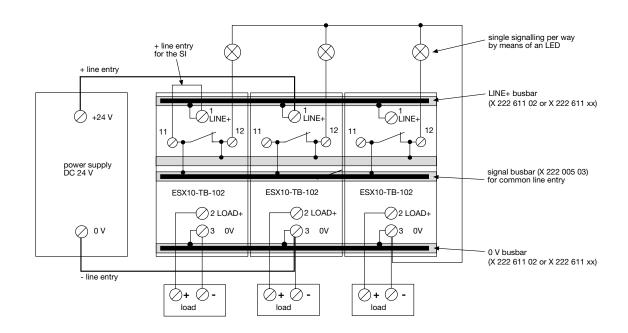
group signalling (series connection)



Wiring diagrams, application examples ESX10-T

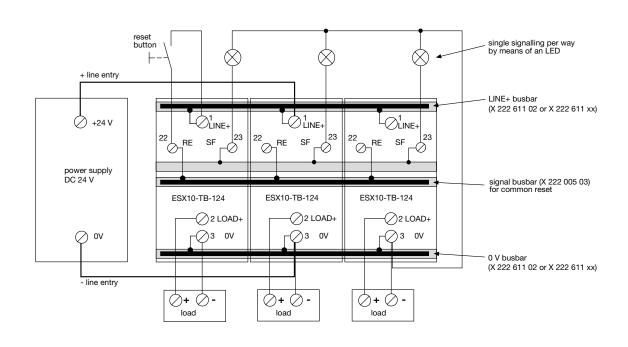
ESX10-TB-102

Single signalling with common line entry



ESX10-TB-124

Single signalling with common reset





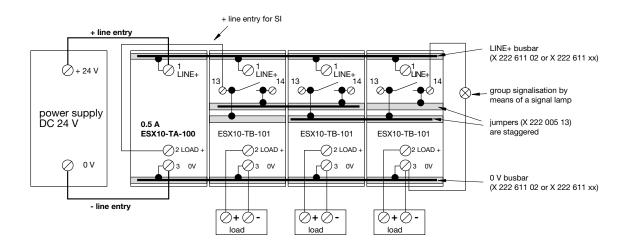
Wiring diagrams, application examples ESX10-T

Applications examples: line entry DC 24 V with protection of signal circuit and direct connection of loads

Auxiliary contacts are shown on the OFF of fault condition

ESX10-TB-101Group signalisation (series connection)

Type ESX10-TA-100-DC24V-0.5A can be used as a supply module including protection of auxiliary circuit Optional: passive supply module AD-TX-EM01 (without protection)

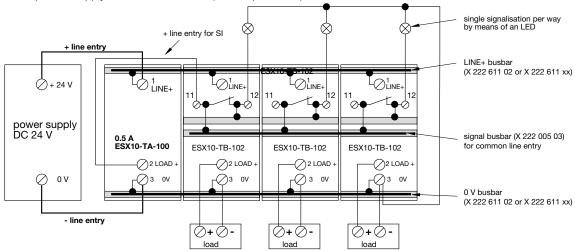


Single signalisation with common line entry

Type ESX10-TA-100-DC24V-0.5A can be used as a supply module

including protection of auxiliary circuit

Optional: passive supply module AD-TX-EM01 (without protection)



4

Description

The ESX10-T has an integral power distribution system. The following wirings can be carried out with different plug-in type busbars:

- LINE +(DC 24 V)
- 0 V

Important: The electronic devices ESX10-T require a 0 V connection.

- Auxiliary contacts
- Reset inputs

Accessories

Busbars for LINE+ and 0 V

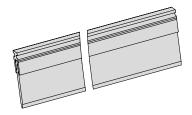
ampacity with one input (recommendation: central supply) ampacity with two inputs grey insulated, length: 500 mm

50 A I_{max}

I_{max}

63 A

part no. X 222 611 02



Busbars for LINE+ and 0 V

grey insulated

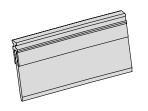
max. 10 plug-in cycles allowed

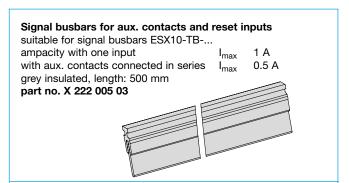
X 222 611 22 (block of 2 ESX10-Ts), length: 22 mm X 222 611 34 (block of 3 ESX10-Ts), length: 34.5 mm (block of 4 ESX10-Ts), length: 47 mm X 222 611 47 (block of 5 ESX10-Ts), length: 59.5 mm X 222 611 59

Packaging unit: 10 pcs

X 222 611 72 (block of 6 ESX10-Ts), length: 72 mm (block of 8 ESX10-Ts), length: 97 mm X 222 611 97 X 222 611 12 (block of 10 ESX10-Ts), length: 122 mm

Packaging unit: 4 pcs

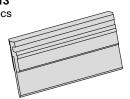




Busbars for auxiliary contacts suitable for signal busbars ESX10-TB-...

grey insulated, length: 21 mm

part no. X 222 005 13 Packaging unit: 10 pcs



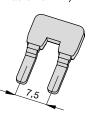
Insulated wire bridge (for aux. contact)

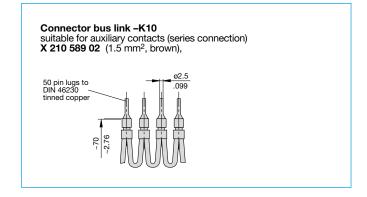
optional as jumper for ESX10-TB-101.../ESX10-TD-101... for group signalling

(series connection of make contacts 13 - 14)

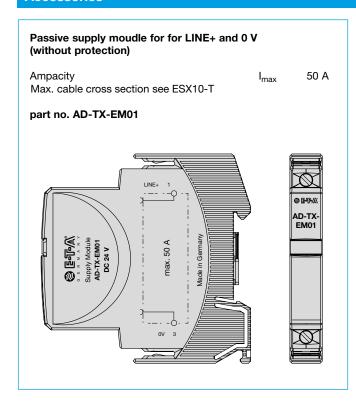
X 223 108 01

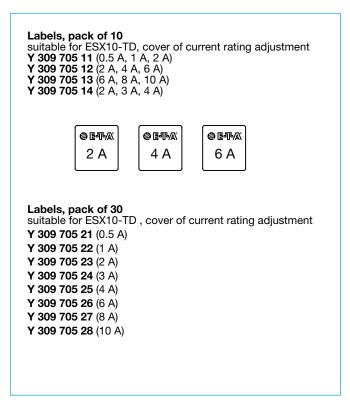
Packaging unit: 10 pcs



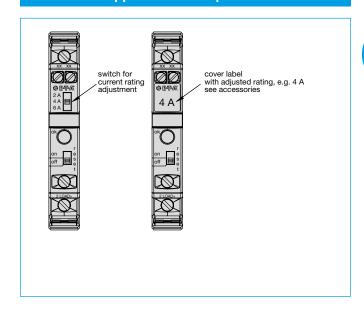


Accessories





ESX10-TD-. Application example of adhesive label



All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of improved design, performance and cost effectiveness, Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.