

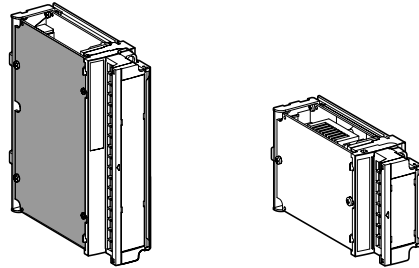
Micro automation platform

Discrete I/O modules

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Connection principles

Connecting modules with screw terminal blocks



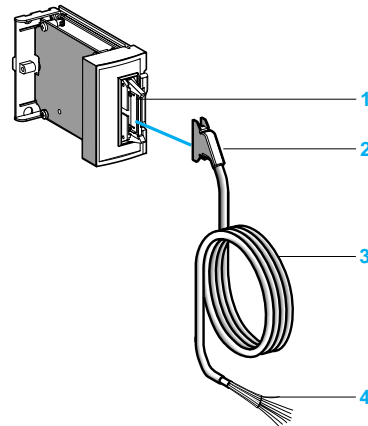
The screw connection terminal blocks are fitted with a removable cover ensuring :

- The screws are held in place
- Personnel safety

Each terminal on a screw terminal block can accept bare wires or wires fitted with cable ends, with closed or open tags. The capacity of each terminal is :

- Minimum :
 - 1 wire 0.28 mm² (AWG 23) without cable end
- Maximum :
 - 2 wires 1 mm² (AWG 17) with cable end, or
 - 1 wire 1.5 mm² (AWG 15) without cable end, or
 - 1 open or closed tag for wires of 1 mm² (AWG 17)

Connecting modules with HE 10 type connectors



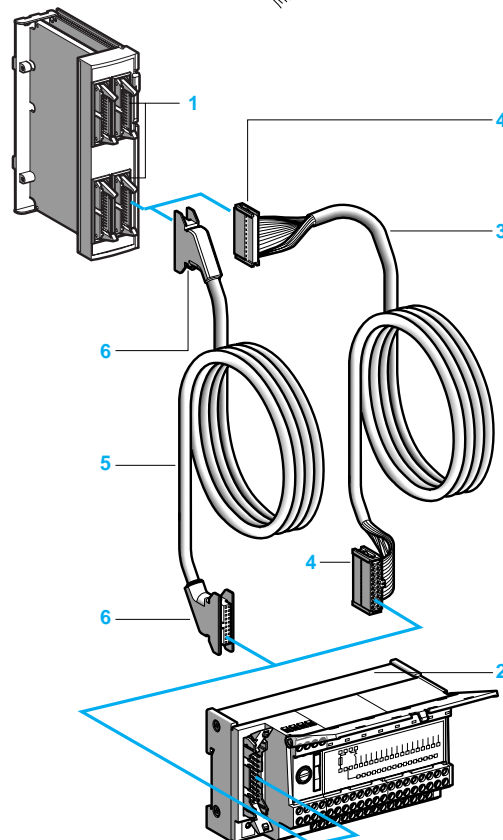
Prewired cable with 20 flying leads, gauge 22 (0.324 mm²)

Used for the simple and direct wire to wire connection of the I/O of modules with connectors 1 to the sensors, preactuators or terminals.

The prewired cable 3 comprises :

- At one end, a moulded HE 10 type connector 2 with 20 x 0.34 mm² cross-section wires in a sheath.
- At the other end 4, flying leads differentiated by colour coding conforming to DIN 47100.

TSX CDP 301 : length 3 metres
TSX CDP 501 : length 5 metres
TSX CDP 1001 : length 10 metres



Sheathed rolled ribbon cable, gauge 28 (0.08 mm²)

Used to connect the I/O of modules with HE 10 type connectors 1 to Telefast 2 connection and adaption rapid wiring interfaces 2. The cable 3 comprises 2 HE 10 type connectors 4 and a sheathed rolled ribbon cable with 0.08 mm² cross-section wires.

Bearing in mind the small cross-section of the wire, this method of connection is only recommended for low current I/O (100 mA maximum per input or per output).

TSX CDP 102 : length 1 metre
TSX CDP 202 : length 2 metres
TSX CDP 302 : length 3 metres

Connection cable, gauge 22 (0.324 mm²)

Used to connect the I/O of modules with HE 10 type connectors 1 to Telefast 2 connection and adaption rapid wiring interfaces 2. The cable 5 comprises 2 moulded HE 10 type connectors 6 and a cable suitable for carrying higher currents (500 mA maximum).

TSX CDP 053 : length 0.5 metres
TSX CDP 103 : length 1 metre
TSX CDP 203 : length 2 metres
TSX CDP 303 : length 3 metres
TSX CDP 503 : length 5 metres

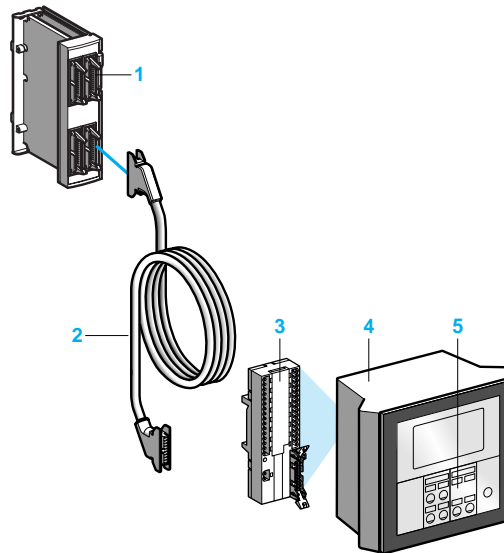
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Connection principles (continued), description

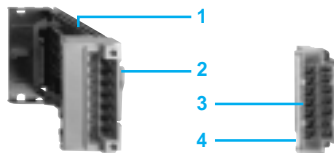
Connection to Tego Dial and Tego Power systems



The TSX DMZ 16 DTK 1 module is specially designed (1) for association with Tego Dial and Tego Power (2) systems. Connection is achieved by simply connecting cable TSX CDP ●●3 2 to the APE-1B24M Dialbase sub-base 3 installed on the Dialpack console 4, which is fitted with a mounting plate 5 for MMI components.

Description

Discrete I/O modules connected via screw terminal block

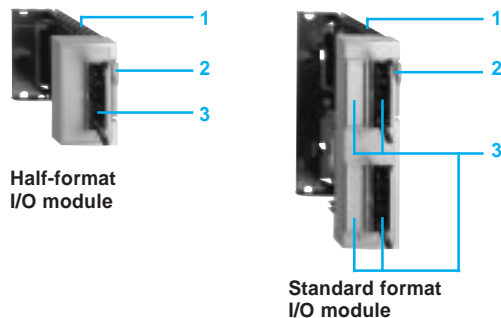


Half-format or standard format I/O module

Half-format or standard format I/O modules with connection via screw terminal block comprise :

- 1 A rigid metal casing
- 2 A locking mechanism for fixing the module in its slot. This can only be accessed when the terminal block is removed.
- 3 A removable screw terminal block for connection to sensors and preactuators
- 4 A cover for the terminal block screws, which also serves as a label holder

Discrete I/O modules connected via connector



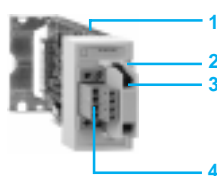
Half-format I/O module

Standard format I/O module

I/O modules with connection via connector comprise :

- 1 A rigid metal casing
- 2 A locking mechanism for fixing the module in its slot
- 3 One, two or four HE 10 connectors for connection to sensors and preactuators

Discrete I/O module connected via connector and cage terminal



The TSX DMZ 16DTK module comprises :

- 1 A rigid metal casing
- 2 A locking mechanism for fixing the module in its slot
- 3 One HE 10 connector for connection to sensors and preactuators
- 4 A cage terminal for connecting the input and output power supplies

(1) TSX DMZ 28 DTK and TSX DMZ 64 DTK I/O modules can also be used in association with Tego Dial and Tego Power systems.

(2) See pages 15000/2 to 15012/3.

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Discrete I/O modules

Functions, compatibility

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Functions

- **I/O assignment** : by software configuration, specific functions can be assigned to certain inputs. The first four inputs of a discrete I/O module located in slot 1 of a TSX Micro PLC can be configured as discrete inputs, latching inputs, event-triggered inputs or up/down counter inputs.
- **Inputs which can be configured as latching inputs** : these are inputs %I1.0 to %I1.3. The principle is that, on a pulse which is shorter than the PLC scan, the pulse is stored and processed on the next PLC scan. The pulse is taken into account when the input changes state (rising and/or falling edge depending on the selected configuration).
- **Inputs which can be configured as event-triggered inputs** : these are inputs %I1.0 to %I1.3. On command events, the application program is diverted directly to the event processing associated with the input causing the event. The event is taken into account when the input changes state (rising and/or falling edge depending on the selected configuration).
- **Inputs which can be configured as up/down counter inputs** : these are inputs %I1.0 to %I1.3. Depending on the software configuration, these inputs enable the creation of up to 2 up/down counter channels, each of which can execute one of the following functions independently : upcounting function, downcounting function, up/down counting with or without direction discrimination.
- **RUN/STOP command** : input %I1.8 can be set to control the RUN/STOP command on the PLC. This is taken into account on a rising edge. A STOP command via an input has priority over the RUN command via the terminal or network.
- **Program and data backup input** : input %I1.9 can be set to back up the application program in the Flash EPROM memory (in the internal RAM) and the first 1000 words %MWi maximum on a rising edge.
- **Alarm output** : on a PLC base, output %Q2.0 can, after configuration, be assigned to the ALARM function. When setting the PLC to RUN and if no blocking fault is detected, the alarm output changes to state 1. It can be used in safety circuits external to the PLC, for example to control the output preactuators power supply, or the TSX Micro PLC power supply.

2/3-wire proximity sensor compatibility

Type of input	≡ 24 V Type 1 Positive logic	≡ 24 V Type 2 Positive logic	≡ 24 V Negative logic	~ 100...120 V Type 2	~ 200...240 V Type 1
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Type of proximity sensor

All ≡ 3-wire prox. sensors, PNP type	Compatible	Compatible			
All ≡ 3-wire prox. sensors, NPN type			Compatible		
≡ 2-wire proximity sensor, Telemecanique or other brand having the following characteristics : - residual voltage, closed ≤ 7 V - minimum switching capacity ≤ 2.5 mA - residual current, open ≤ 1.5 mA	Compatible	Compatible	Compatible		
≡/~ 2-wire proximity sensor		Compatible		Compatible	(1)
~ 2-wire proximity sensor				Compatible	(1)

(1) In the nominal voltage range ~ 220...240 V.

 Compatible

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Specifications of ± 24 V input modules (1)

Module type		TSX DEZ 12D2/TSX DMZ 28DR	TSX DEZ 12D2K/TSX DEZ 32D2	TSX DMZ 16DTK	
Number of inputs		12/16	12/32	8	
Connection		Screw terminal block	HE 10 connector/screw terminal block	HE 10 connector/enclosed terminal block	
Nominal input values	Voltage	± 24 (pos. log.) ± 24 (neg. log.) ± 24 (positive logic)			
	current	9	6	7	
	Sensor supply (ripple included)	V 19...30 (possible up to 34 V, limited to 1 hour per 24 hours)			
Input limit values	At state 1	Voltage	V ≥ 11	≤ 8	≥ 11
		Current	mA > 2.5	> 2.5	> 2.5
	At state 0	Voltage	V < 5	$> U_{sup} - 5$	< 5
		Current	mA < 1.5	< 1.5	< 2
Input impedance at state 1	K Ω	2.4	4	3.4	
Configurable response time	State 0 to 1	ms	0.1...7.5		
	State 1 to 0	ms	0.1...7.5		
IEC 1131-2 conformity		Yes, type 1	–	Yes, type 2	
Proximity sensor compatibility 2/3-wire		Yes			
Isolation resistance	M Ω	> 10 at ± 500 V			
Type of input		Resistive	Current sink	Resistive	
Consumption		See page 43311/2			
Dissipated power	W	TSX DEZ 12D2 : 2.7 TSX DMZ 28DR : 4.5	TSX DEZ 12D2K : 2.7 TSX DEZ 32D2 : 6	3	
Isolation	Betw. channels and ground	V rms	1500 - 50/60 Hz for 1 min		
	Betw. channels and int. log.	V rms	1500 - 50/60 Hz for 1 min		

Module type		TSX DMZ 28DTK/DMZ 28DT	TSX DMZ 64DTK	TSX ACZ 03 (2)
Number of inputs		16	32	8
Connection		HE 10 connector/screw term. block	HE 10 connector	SUB-D connector
Nominal input values	Voltage	V ± 24 (positive logic)		
	Current	mA 7	3.5	8
	Sensor supply (ripple included)	V 19...30 (possible up to 34 V, limited to 1 hour per 24 hours)		
Input limit values	At state 1	Voltage	V ≥ 11	
		Current	mA > 2.5	
	At state 0	Voltage	V < 5	< 5
		Current	mA < 1.5	< 1.4
Input impedance at state 1	K Ω	3.4	6.3	2.67
Configurable response time	State 0 to 1	ms	0.1...7.5	
	State 1 to 0	ms	0.1...7.5	
IEC 1131-2 conformity		Yes, type 1		
Proximity sensor compatibility 2/3-wire		Yes		
Isolation resistance	M Ω	> 10 at ± 500 V		
Type of input		Resistive	Current sink	Resistive
Consumption		See page 43311/2		
Dissipated power	W	5	5	–
Isolation	Betw. channels and ground	V rms	1500 - 50/60 Hz for 1 min	
	Betw. channels and int. log.	V rms	1500 - 50/60 Hz for 1 min	

(1) Characteristics at 60 °C for 60 % I/O loading or at 30 °C for 100 % I/O loading.

(2) Adaptation and analogue adjustment module enables the transformation of 8 integral analogue inputs for TSX 37-22 bases into 8 discrete inputs (see page 43053/2).

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Discrete I/O modules

Specifications (continued)

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Specifications of a.c. input modules (1)

Module type			TSX DEZ 08A4	TSX DEZ 08A5	TSX DMZ 28AR
Number of inputs			8	8	16
Connection			Screw terminal block	Screw terminal block	Screw terminal block
Nominal input values					
	Voltage	V	~ 100...120	~ 200...240	~ 100...120
	Current	mA	11	10	11
	50 Hz	mA	13	12	13
	60 Hz	mA	13	12	13
	Frequency	Hz	47...63	47...63	47...63
	Sensor supply	V	85...132	170...264	85...132
Input limit values					
	At state 1	Voltage	V	≥ 74	≥ 120
		Current	mA	≥ 6 (for U = 74 V)	≥ 6 (for U = 164 V)
	At state 0	Voltage	V	< 20	< 40
		Current	mA	< 4	< 5
Response time					
	State 0 to 1	50 Hz	ms	11...18	
		60 Hz	ms	9...16	
	State 1 to 0	50 Hz	ms	11...24	
		60 Hz	ms	10...22	
IEC 1131-2 conformity			Yes, type 2	Yes, type 1	Yes, type 2
Proximity sensor compatibility 2-wire			Yes		
Isolation resistance		MΩ	> 10 at --- 500 V		
Type of input			Capacitive		
Consumption			See page 43311/2		
Dissipated power		W	1.7	1.4	5.6
Isolation		V rms	2000 - 50/60 Hz for 1 min		
	Betw. channels and ground	V rms	2000 - 50/60 Hz for 1 min		
	Betw. channels and int. log.	V rms	2000 - 50/60 Hz for 1 min		

(1) Characteristics at 60 °C for 60 % I/O loading or at 30 °C for 100 % I/O loading.

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Discrete I/O modules

Specifications (continued)

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Specifications of solid state output modules (1)

Module type			TSX DSZ 08T2K/TSX DMZ 28DTK	TSX DSZ 08T2/TSX DMZ 28DT	TSX DSZ 32T2
Number of outputs			8/12	8/12	32
Connection			HE 10 connector	Screw terminal block	Screw terminal block
Nominal output values	Voltage	V	--- 24	--- 24	--- 24
	Current	A	0.5	0.5	0.5
	Tungsten filament lamp	W	10		
Limit output values	Voltage	V	19...30 (possible up to 34 V, limited to 1 hour per 24 hours)		
	Current (for U = 30 or 34 V)	A	0.625		
Logic			Positive, current source		
Leakage current at state 0		mA	< 0.5 (< 2 for accidental disconnection of the 0 V module)		
Residual voltage		V	< 0.3 (for I = 0.5 A)		
Min. load impedance		Ω	48		
Response time (2)	From state 1	ms	< 0.5		
	From state 0	ms	< 0.5		
Switching frequency on inductive load		Hz	< 0.6/LI ²		
Built-in protection	Against overvoltages		By Zener diode		
	Against reverse polarity		By reverse mounted diode on power supply. Provide 1 fast-blow fuse on the + --- 24 V of the preactuator supply.		
	Against short-circuits and overloads	A	By current limiter and thermal breaker 0.75 ≤ Id ≤ 2		
Paralleling of outputs			2 outputs max.		
Consumption			See page 43311/2		
Nominal dissipated power	Via module	W	3/5	3/5	3.2
	Via channel at 1	W	0.15		
Isolation (Test voltage)	Betw. outputs and ground	V rms	1500 - 50/60 Hz for 1 min		
	Betw. outputs and internal log.	V rms	1500 - 50/60 Hz for 1 min		
	Insulation resistance	MΩ	> 10 at --- 500 V		

Module type			TSX DSZ 04T22	TSX DMZ 16DTK	TSX DMZ 64DTK
Number of outputs			4	8	32
Connection			Screw terminal block	HE 10 connector, cage terminal block	HE 10 connector
Nominal output values	Voltage	V	--- 24		
	Current	A	2	0.5	0.1
	Tungsten filament lamp	W	15	10	1.2 max.
Limit output values	Voltage	V	19...30 (possible up to 34 V, limited to 1 hour per 24 hours)		
	Current (for U = 30 or 34 V)	A	2.5	0.625	0.125
Logic			Positive, current source		
Leakage current at state 0		mA	< 0.5	< 0,5 (< 2 for accidental disconnection of the 0 V module)	< 0.1
Residual voltage		V	< 0.8 (for I = 2 A)	< 0.3 (for I = 500 mA)	< 1.5
Min. load impedance		Ω	12	48	220
Response time (2)	From state 1	ms	< 1	< 0.5	< 0.25
	From state 0	ms	< 1	< 0.5	< 0.25
Switching frequency on inductive load		Hz	< 0.5/LI ²	< 0.6/LI ²	< 0.5/LI ²
Built-in protection	Against overvoltages		By Zener diode		
	Against reverse polarity		By reverse mounted diode on power supply. Provide 1 fast-blow fuse on the + --- 24 V of the preactuator supply.		
	Against short-circuits and overloads	A	By current limiter and electronic breaker 2,6 ≤ Id ≤ 5	By current limiter and thermal breaker 0,75 ≤ Id ≤ 2	By current limiter and electronic breaker 0,125 ≤ Id ≤ 0,185
Paralleling of outputs			2 outputs max.	2 outputs max.	3 outputs max.
Consumption			See page 43311/2		
Nominal dissipated power	Per module	W	3.8	3	5
	Per channel at 1	W	1.15 (U = 24 V)		
Isolation (Test voltage)	Betw. outputs and ground	V rms	1500 - 50/60 Hz for 1 min		
	Betw. outputs and internal log.	V rms	1500 - 50/60 Hz for 1 min		
	Insulation resistance	MΩ	> 10 at --- 500 V		

(1) Characteristics at 60 °C for 60 % I/O loading or at 30 °C for 100 % I/O loading.

(2) All outputs have fast demagnetisation circuits for electro-magnets. Discharge time of electro-magnets < L/R.

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Specifications of relay outputs (connection via screw terminal block) (1)

Module type			TSX DSZ 08R5/TSX DMZ 28DR/TSX DMZ 28AR					TSX DSZ 32R5				
Number of outputs			8/12/12					32				
Operating limit values			~	V 19...264								
			---	V 10...34								
Type of contact			Normally open									
Thermal current			A	3 (5 A max. per common of each group of channels)					2 (7 A max. per common of each group of 16 channels)			
a.c. load	Resistive AC-12 duty	Voltage	V	24	48	110	220	24	48	100...120	200...240	
		Power	VA	50 (8)	50 (10) 110 (7)	110 (10) 220 (7)	220 (10)	50 (6)	100 (5)	200 (4)	200 (6)	
a.c. load	Inductive AC-14 and AC-15 duty	Voltage	V	24	48	110	220	24	48	100...120	200...240	
		Power	VA	24 (7)	10 (15) 24 (13)	10 (16) 50 (12) 110 (3)	10 (16) 50 (14) 110 (10), 220 (2)	24 (2)	50 (2)	10 (9) 50 (3)	10 (11) 50 (5)	
d.c. load	Resistive DC-12 duty	Voltage	V	24							24	
		Power	W	24 (1 x 10 ⁶ operations) 40 (0.3 x 10 ⁶ operations)					12 (0.6 x 10 ⁶ operations) 24 (0.3 x 10 ⁶ operations) 48 (0.15 x 10 ⁶ operations)			
d.c. load	Inductive DC-13 duty (L/R = 60 ms)	Voltage	V	24							24	
		Power	W	10 (2 x 10 ⁶ operations) 24 (1 x 10 ⁶ operations)					6 (0.12 x 10 ⁶ operations) 12 (0.06 x 10 ⁶ operations) 24 (0.03 x 10 ⁶ operations)			
Response time	Activation	ms	< 10									
	Deactivation	ms	< 10									
Built-in protection	Against short-circuits and overloads	None, obligatory mounting of a fast blow fuse per channel or group of channels										
	Against inductive overvoltages in ~	None, obligatory parallel mounting of an RC circuit or an MOV (ZNO) peak limiter appropriate to the voltage										
	Against inductive overvoltages in ---	None, obligatory mounting of a flywheel diode on the terminals of each preactuator										
Consumption			See page 43311/2									
Dissipated power per module			W	1.5/4.5/5.6					3.5			
Isolation (Test voltage)	Betw. outputs and ground	V rms	2000 - 50/60 Hz for 1 min									
	Betw. outputs and internal log.	V rms	2000 - 50/60 Hz for 1 min									
	Insulation resistance	MΩ	> 10 at --- 500 V									

(1) Characteristics at 60 °C for 60 % I/O loading or at 30 °C for 100 % I/O loading.

- (2) For 0.1 x 10⁶ operations.
- (3) For 0.15 x 10⁶ operations.
- (4) For 0.2 x 10⁶ operations.
- (5) For 0.25 x 10⁶ operations.
- (6) For 0.3 x 10⁶ operations.
- (7) For 0.5 x 10⁶ operations.
- (8) For 0.7 x 10⁶ operations.
- (9) For 0.8 x 10⁶ operations.
- (10) For 1 x 10⁶ operations.
- (11) For 1.2 x 10⁶ operations.
- (12) For 1.5 x 10⁶ operations.
- (13) For 2 x 10⁶ operations.
- (14) For 3 x 10⁶ operations.
- (15) For 5 x 10⁶ operations.
- (16) For 10 x 10⁶ operations.

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TSX DEZ 12D2



TSX DSZ 08T2K



TSX DMZ 16DTK



TSX DMZ 28DT



TSX DMZ 64DTK

Discrete I/O modules

Nature of current	Input voltage	Modularity (no. of channels)	Format	Connection	Reference	Weight kg
=	24 V (positive log. IEC type 2)	12	Half	Via HE 10 type connector (1)	TSX DEZ 12D2K	0.160
		32	Stand.	Via screw terminal block (supplied)	TSX DEZ 32D2	0.290
~	24 V (positive log. IEC type 1 or negative log.)	12	Half	Via screw terminal block (supplied)	TSX DEZ 12D2	0.230
		8	Half	Via screw terminal block (supplied)	TSX DEZ 08A4	0.230
~	200...240 V IEC type 1	8	Half	Via screw terminal block (supplied)	TSX DEZ 08A5	0.230

Discrete output modules

Nature of current	Output voltage	Modularity (no. of channels)	Format	Connection	Reference	Weight kg
= solid state protected	24 V/0.5 A protected	8	Half	Via HE 10 type connector (1)	TSX DSZ 08T2K	0.180
		32	Stand.	Via screw terminal block (supplied)	TSX DSZ 08T2	0.240
				Via screw terminal block (supplied)	TSX DSZ 32T2	0.420
=/~ relay, not protected	24 V/2 A protected	4	Half	Via screw terminal block (supplied)	TSX DSZ 04T22	0.310
		8	Half	Via screw terminal block (supplied)	TSX DSZ 08R5	0.260
				32	Stand.	Via screw terminal block (supplied)

Discrete I/O modules

Number of I/O	No., type of inputs	No., type of outputs	Format	Connection	Reference	Weight kg
16 (2)	8, = 24 V (positive log. IEC type 1)	8, solid state = 24 V/0.5 A protected	Half	Via HE 10 type connector (1) and encl. terminal block	TSX DMZ 16DTK	0.160
28	16, = 24 V (positive log. IEC type 1)	12, solid state = 24 V/0.5 A protected	Stand.	Via HE 10 type connector (1)	TSX DMZ 28DTK	0.330
				Via screw terminal block (supplied)	TSX DMZ 28DT	0.465
			Stand.	Via screw terminal block (supplied)	TSX DMZ 28DR	0.500
64	16, = 24 V (positive log. IEC type 1 or negative log.)	12, relay 50 VA not protected	Stand.	Via screw terminal block (supplied)	TSX DMZ 28AR	0.500
				16, ~ 100...120 V IEC type 2	12, relay 50 VA not protected	Stand.
64	32, = 24 V (positive log. IEC type 1)	32, solid state = 24 V/0.1 A protected	Stand.	Via HE 10 type connector (1)	TSX DMZ 64DTK	0.410

(1) Module supplied with HE 10 type connector cover.

(2) Module compatible with Tego industrial control installation system (please consult your Regional Sales Office).

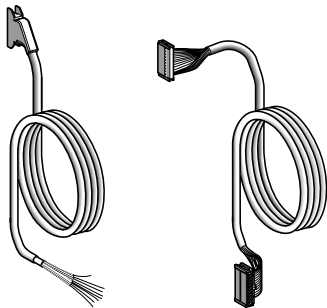
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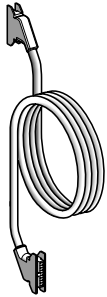
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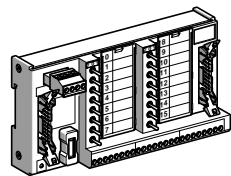
Connecting cables for I/O modules fitted with HE 10 type connectors



TSX CDP 001 TSX CDP 002



TSX CDP 003



ABE-7TES160



TSX BLZ H01



TSX BLZ L01

Description	Constitution Use	Cross-section	Length	Reference	Weight kg
20-wire pre-formed cable (500 mA max)	1 HE 10 type connector, moulded 1 end free with wires identified	0.324 mm ²	3 m	TSX CDP 301	0.405
			5 m	TSX CDP 501	0.720
			10 m	TSX CDP 1001	1.210
Connecting cables (100 mA max)	2 HE 10 type connectors for Telefast 2 system	0.08 mm ²	1 m	TSX CDP 102	0.090
			2 m	TSX CDP 202	0.170
			3 m	TSX CDP 302	0.250
Connecting cables (500 mA max)	2 HE 10 type connectors, moulded, for Telefast 2, Tego Dial, Tego Power systems	0.324 mm ²	0.5 m	TSX CDP 053	0.085
			1 m	TSX CDP 103	0.150
			2 m	TSX CDP 203	0.280
			3 m	TSX CDP 303	0.410
			5 m	TSX CDP 503	0.670

Simulator sub-base for I/O modules fitted with HE 10 type connectors

Description	Use	Reference	Weight kg
Telefast 2 16-channel simulator sub-base for discrete inputs/outputs	Has 2 HE 10 type connectors which enable it to be inserted between the PLC I/O module and the ABE-7H/P/R/S Telefast 2 I/O sub-base. Used for display, forcing, inhibition or continuity of discrete I/O	ABE-7TES160	0.350

Replacement parts

Description	Use	Reference	Weight kg
Screw terminal blocks (supplied with I/O modules with screw terminal block connection)	For half-format modules	TSX BLZ H01	0.055
	For standard format modules	TSX BLZ L01	0.115

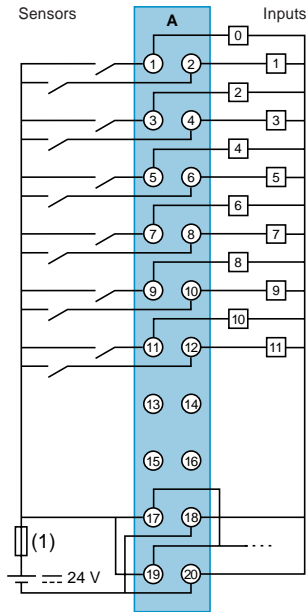
Micro automation platform

Discrete I/O modules

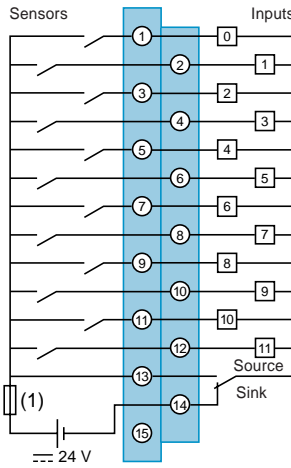
Connections

Specifications :
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References :
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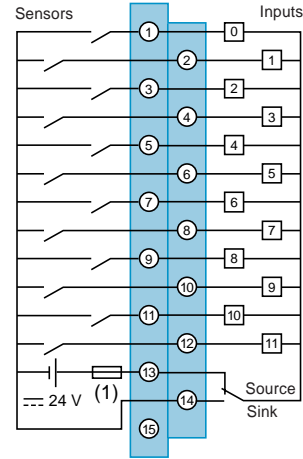
TSX DEZ 12D2K



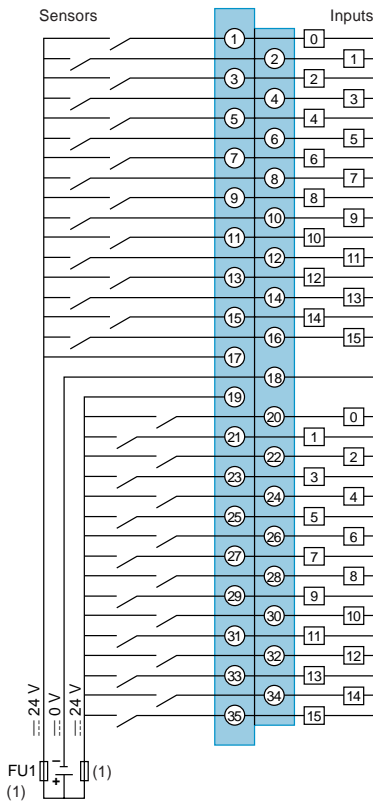
TSX DEZ 12D2
Positive logic



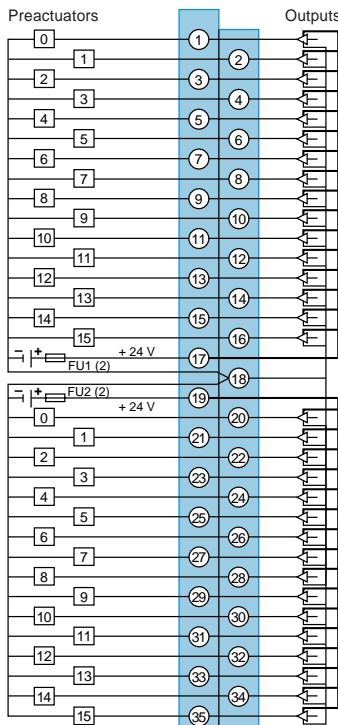
TSX DEZ 12D2
Negative logic



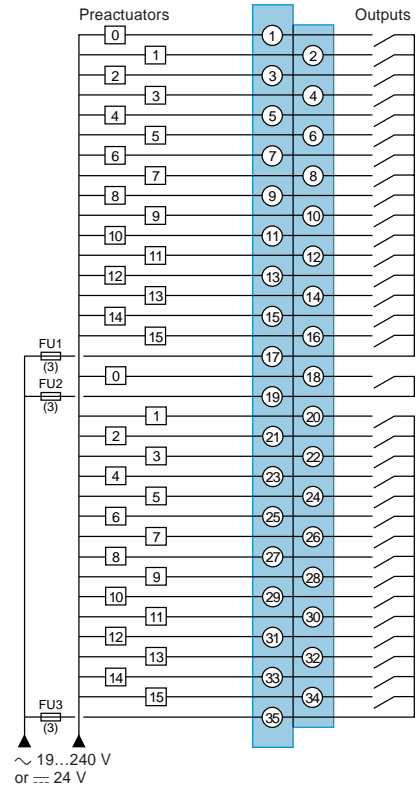
TSX DEZ 32D2



TSX DSZ 32T2



TSX DSZ 32R5



- (1) 0.5 A fast blow fuse
- (2) 10 A fast blow fuse
- (3) Fast blow fuses, rated according to the load

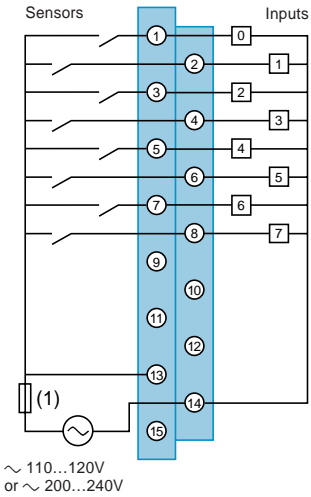
Micro automation platform

Discrete I/O modules

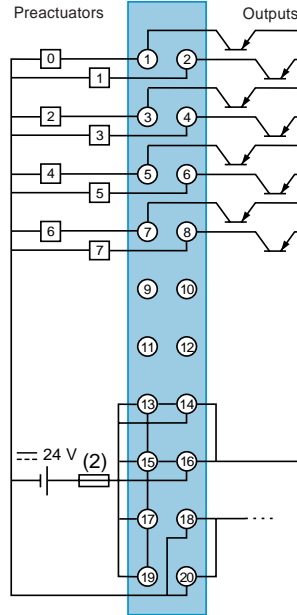
Connections (continued)

Specifications :
pages 43051/5 to 43051/8
References :

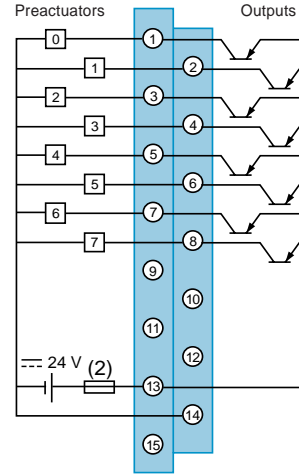
TSX DEZ 08A4/08A5



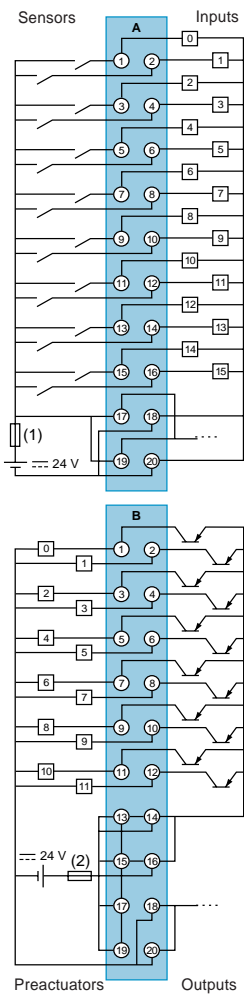
TSX DSZ 08T2K



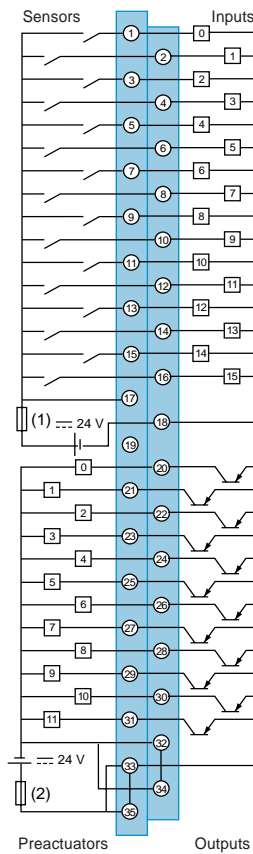
TSX DSZ 08T2



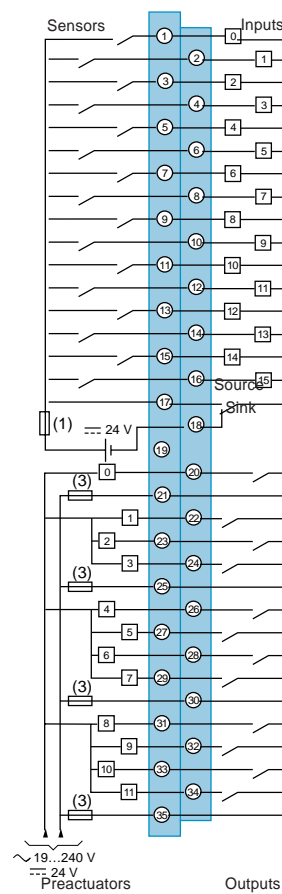
TSX DMZ 28DTK



TSX DMZ 28DT



TSX DMZ 28DR Positive logic (Sink)



Negative logic (Source) :
+ 24 V = terminal 17
- 24 V = terminal 18 = common

- (1) 0.5 A fast blow fuse
- (2) 10 A fast blow fuse
- (3) Fast blow fuses, rated according to the load

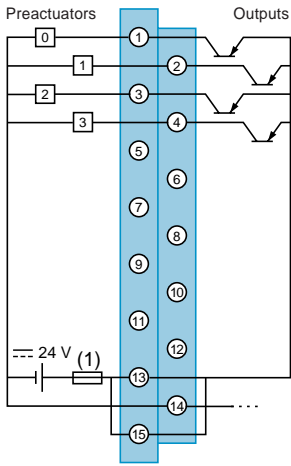
Micro automation platform

Discrete I/O modules

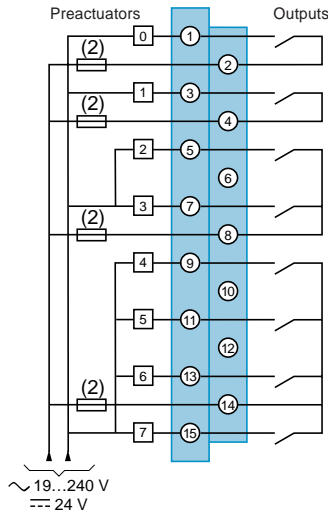
Connections (continued)

Specifications :
pages 2/25 to 2/28
References :
pages 2/31 to 2/33

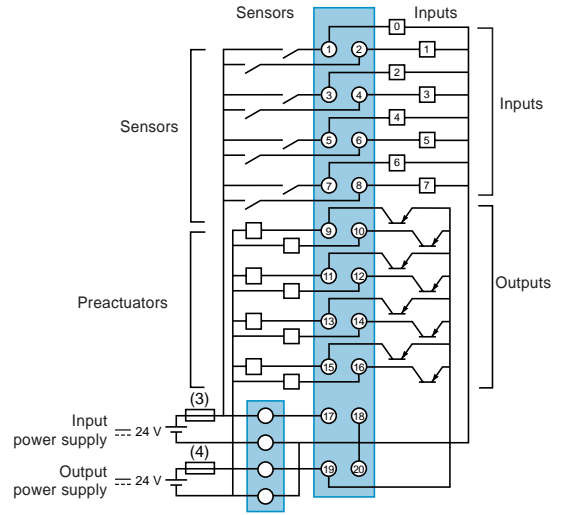
TSX DSZ 04T22



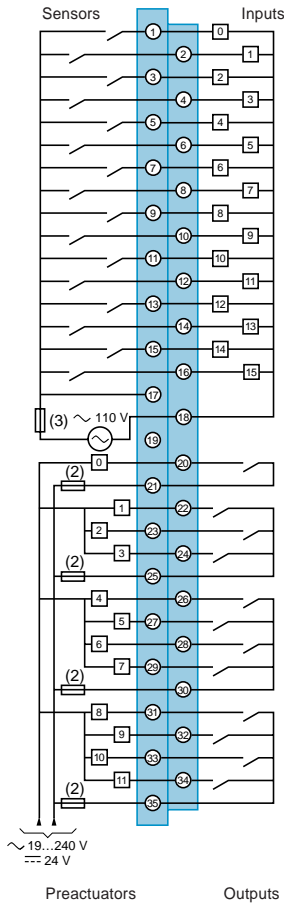
TSX DSZ 08R5



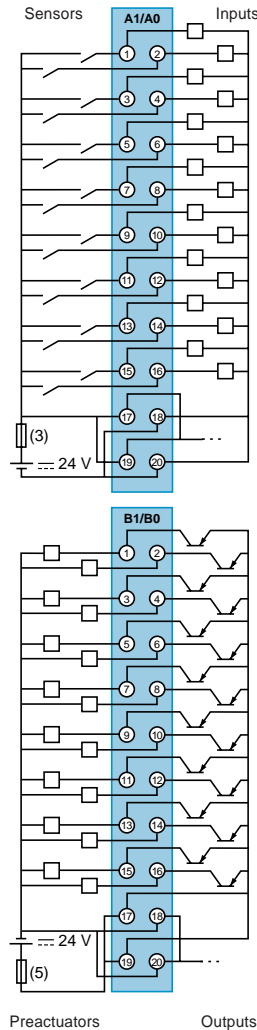
TSX DMZ 16DTK



TSX DMZ 28AR



TSX DMZ 64DTK



Channels

A1	A0
16	0
17	1
18	2
19	3
20	4
21	5
22	6
23	7
24	8
25	9
26	10
27	11
28	12
29	13
30	14
31	15

Channels

B1	B0
16	0
17	1
18	2
19	3
20	4
21	5
22	6
23	7
24	8
25	9
26	10
27	11
28	12
29	13
30	14
31	15

- (1) 10 A fast blow fuse
- (2) Fast blow fuses, rated according to the load
- (3) 0.5 A fast blow fuse
- (4) 6.3 A fast blow fuse
- (5) 2 A fast blow fuse

20-wire preformed cable

TSX DEZ/DSZ/DMZ ●●●K

Correspondence between HE 10 connector pin and colour of wire

1	white	11	grey/pink
2	brown	12	red/blue
3	green	13	white/green
4	yellow	14	brown/green
5	grey	15	white/yellow
6	pink	16	yellow/brown
7	blue	17	white/grey
8	red	18	grey/brown
9	black	19	white/pink
10	purple	20	pink/brown