

# TSXPAY262

Preventa safety module - 24 V DC - standard format - < 5 W

Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 737.00 USD



## Main

Commercial Status	Commercialised
Range of product	Modicon Premium Automation platform
Product or component type	Preventa safety module

## Complementary

[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2...30 V
Activation threshold	< 20 V
Short circuit protection	4 A gG external conforming to IEC 947-5-1 on safety relay outputs 1 A gG external conforming to IEC 947-5-1 on power supply
Isolation voltage	4000 V III 2
Discrete input number	12 emergency stop or limit switch discrete inputs conforming to IEC 1131 Type 1 1 reset PB monitoring input conforming to IEC 1131 Type 1 1 reset PB input conforming to IEC 1131 Type 1 1 feedback loop input conforming to IEC 1131 Type 1 1 double or single contact selection input conforming to IEC 1131 Type 1
Discrete input logic	Positive
Inrush current	<= 0.5 A
Iso between input and earth	500 Vrms 50/60 Hz for 60 s
Power dissipation in W	< 5 W
Safety outputs	2 NO safety relay AGCDO gold plated volt free output
System Voltage	19...250 V AC relay output 17...127 V DC relay output
Rated power in VA	60 VA 24 V AC-15 inductive 550 VA 220 V AC-15 inductive 280 VA 110 V AC-15 inductive 120 VA 48 V AC-15 inductive
Rated power in W	60 W 24 V DC-13 inductive 100 ms
[Ithe] conventional enclosed thermal current	<= 2.5 A
Minimum output current	>= 30 mA
Response time on output	< 12 ms
Isolation between output and earth	1500 Vrms 50/60 Hz for 60 s 300 V conforming to DIN VDE 0110 part 2
Safety acquisition	Monitor external power supply of the module Read enable inputs Read feedback loop Read the safety outputs control Read status of the 24 inputs
Local signalling	28 LEDs diagnostic of safety system

Electrical connection	1 connector SUB-D 44 pins for connecting the safety system input 1 connector removable screw terminal block 6 pins for connecting the safety output
Cable cross section	0 in² (1.5 mm²) with cable end safety output circuit 0...0 in² (0.2...2.5 mm²) without cable end safety output circuit
Current consumption	<= 200 mA 24 V DC < 150 mA 5 V DC
Module format	Standard
Product weight	0.95 lb(US) (0.43 kg)

## Environment

Ambient air temperature for operation	32...140 °F (0...60 °C) with fan module 32...104 °F (0...40 °C) without fan
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
IP degree of protection	IP20 conforming to IEC 60529
Standards	CSA C22.2 specific requirements (PLC) IEC 61508 SIL 3 machine safety parts of control systems ISO 13849-1 category 4 machine safety parts of control systems UL 508 specific requirements (PLC) ISO 13850 emergency stop equipment EN/ISO 12100 machine electrical equipment EN/IEC 61131-2 specific requirements (PLC) EN/IEC 60204-1 machine electrical equipment EN 954 machine safety parts of control systems
Product certifications	BG CSA UL

## Ordering and shipping details

Category	22558 - TSX PREMIUM, ATRIUM & PL7 PRO
Discount Schedule	PC22
GTIN	00785901621966
Nbr. of units in pkg.	1
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	FR

## Offer Sustainability

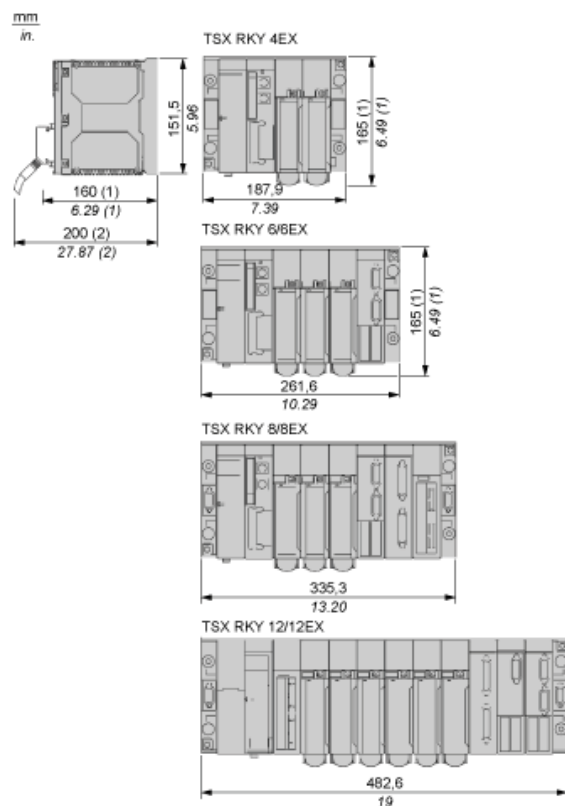
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0927 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference contains SVHC above the threshold - <a href="#">go to CaP for more details</a>
Product end of life instructions	Need no specific recycling operations

## Contractual warranty

Warranty period	18 months
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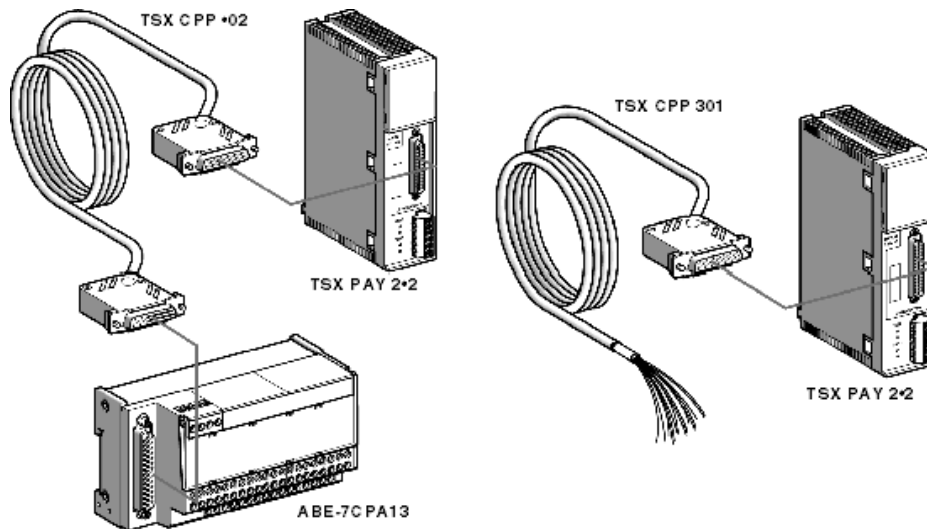
## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks



- (1) With screw terminal block modules.  
(2) Maximum depth for all types of modules and their associated connectors.

## The Safety System



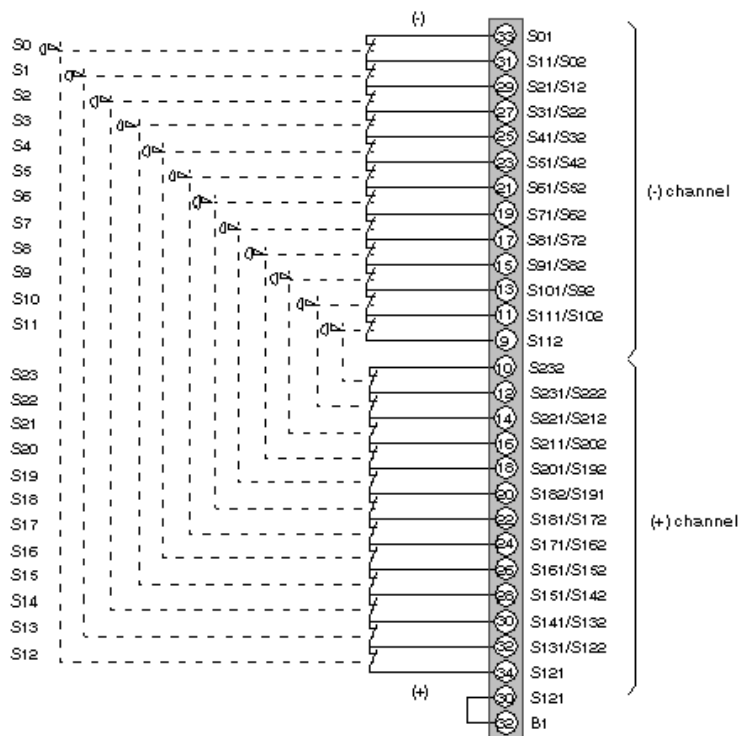
## Connection of Emergency Stop Buttons and Safety Switches

### Double Contacts (recommended)

Double contact wiring of inputs is suitable for applications requiring category 3 or 4 compliant levels of safety.

Short circuits between channels are detected.

ES PB or PS short circuits are detected and pinpointed.



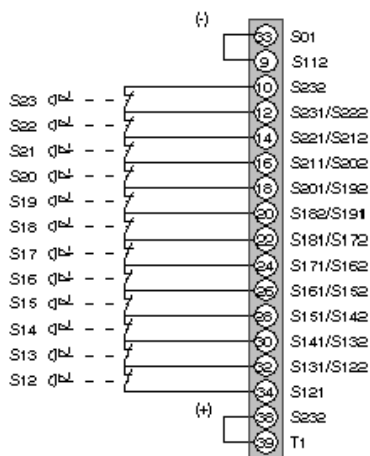
**TELEFAST terminals**

NOTE: If less than 12 double contacts are being used, the input terminals that are not in use must be bridged.

### Single Contact

This wiring is not suitable for applications requiring category 3 or 4 compliant levels of safety.

Not all errors are detected, nor are ES PB or PS short circuits. Here, pressing this PB will not cause the safety circuits to open (loss of the safety function).



**TELEFAST terminals**

NOTE: If less than 12 contacts are being used, the input terminals that are not in use must be bridged.

## Safety Output Wiring Diagrams

### Feedback Loop Connection

The category 4 immediate stop system design requires supply shut-off device redundancy and activation monitoring.

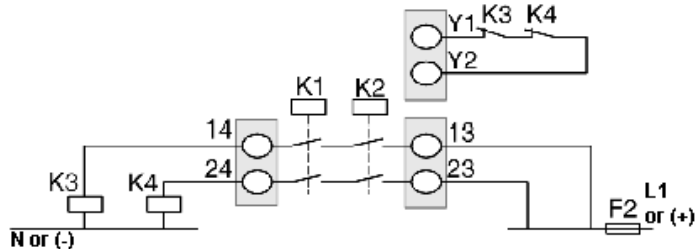
Wiring of open contacts (K3, K4) or (K3, K4, K5, K6) allows every activation request to be checked.

It is compulsory for the contacts of relays (K3, K4) or (K3, K4, K5, K6) to be mechanically linked.

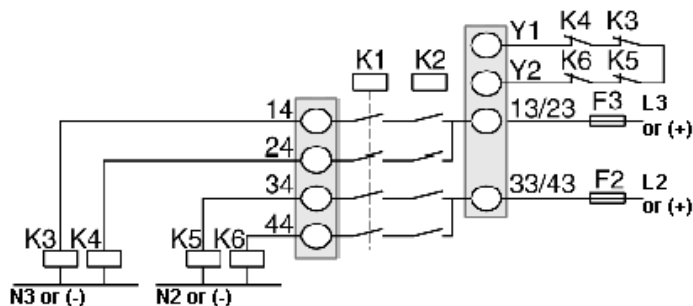
Category 3 wiring means:

- no wiring of auxiliary contacts in the feedback loop (a strap links terminals Y1 and Y2/S33),
- standard switches, with non-guided contacts, are sufficient.

2-switch set-up (category 4):

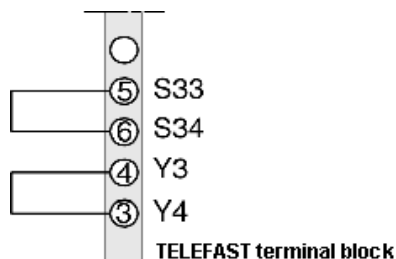


4-switch set-up (category 4):



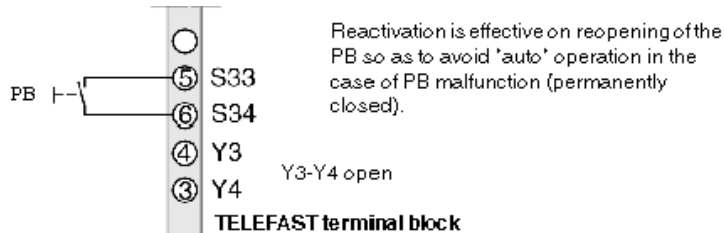
## Connection of the Safety System Reactivation Function

### Wiring Diagram for Automatic Reactivation

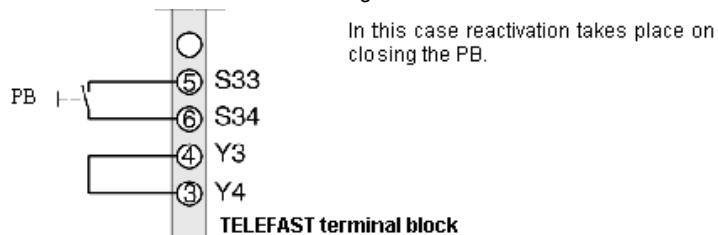


### Wiring Diagrams for Manual Reactivation

With Reactivation button monitoring (recommended):

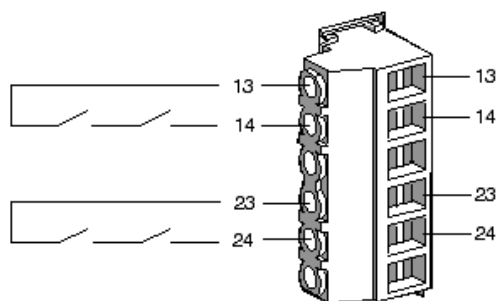


Without Reactivation button monitoring:



## Safety Outputs

## Wiring Diagram



13, Independent supply inputs

23:

14, Safety outputs

24:

NOTE:

Wires cross-section:

- with termination: 2 x 1 mm<sup>2</sup>/16 AWG or 1 x 1.5 mm<sup>2</sup>/14 AWG
- without termination: 1 x 2.5 mm<sup>2</sup>/12 AWG