

Product data sheet

Specifications



discrete input module - 2 groups of 8 inputs - 24 V DC - IP67

TSXEEF16D2

 **Discontinued on:** Jul 12, 2021

 **Discontinued**

Main

Range Of Product	Modicon Premium Automation platform
Product Or Component Type	Discrete input module on Fipio
Discrete I/O Number	16
Group Of Channels	2 groups of 8 inputs
Discrete Input Number	16 EN/IEC 61131 type 2
Input Compatibility	With 2-wire/3-wire proximity sensors

Complementary

Discrete Input Voltage	24 V DC
Discrete Input Logic	Positive
Discrete Input Current	7 mA
Sensor Power Supply	19.2...30 V
Voltage State 0 Guaranteed	<= 5 V
Voltage State 1 Guaranteed	>= 11 V
Current State 0 Guaranteed	<= 2 mA
Current State 1 Guaranteed	>= 6 mA 11 V
Response Time	3.5 ms from state 0 to 1 on input 3.5 ms from state 1 to 0 on input
Power Supply Monitoring	14...18 V DC sensor
Short-Circuit Protection	350 mA per 4 channels group on input
Isolation Between Channels	None
Isolation Voltage	500 V AC between bus and internal logic
Local Signalling	for module operation and integrated communication 3 LEDs for channels status 16 LEDs for sensor power supply fault 2 LEDs
Electrical Connection	1 connector dust and damp proof male M23 for Fipio bus connctn, 24V DC power supply for sensor & internal electric of mod 8 connectors female M12 for connecting sensors
Operating Position	Any position
Marking	CE
Current Consumption	130 mA 24 V DC 10 two-wire sensor inputs
Net Weight	1.10 lb(US) (0.5 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Environment

Ip Degree Of Protection	IP67
Weatherproofness Level	Dust and damp proof
Ambient Air Temperature For Operation	32...140 °F (0...60 °C)
Ambient Air Temperature For Storage	-13...158 °F (-25...70 °C)
Operating Altitude	0...6561.68 ft (0...2000 m)
Shock Resistance	15 gn 11 ms
Standards	CNOMO DIN EN/IEC 61131
Product Certifications	CSA Fipio UL

Ordering and shipping details

Category	22558-TSX PREMIUM, ATRIUM & PL7 PRO
Discount Schedule	PC22
Gtin	3595862046718
Returnability	No
Country Of Origin	DE

Contractual warranty

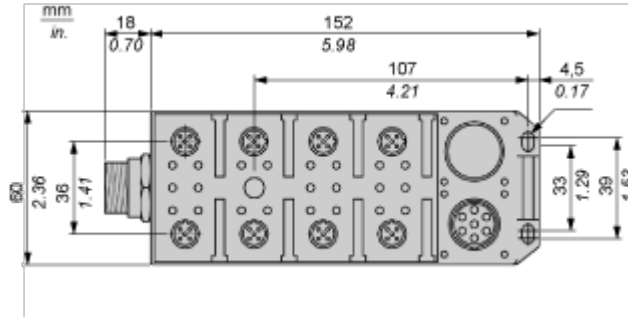
Warranty	18 months
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Dimensions Drawings

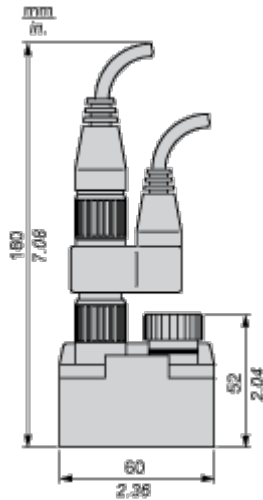
IP 67 Module

Dimensions

Horizontal dimensions



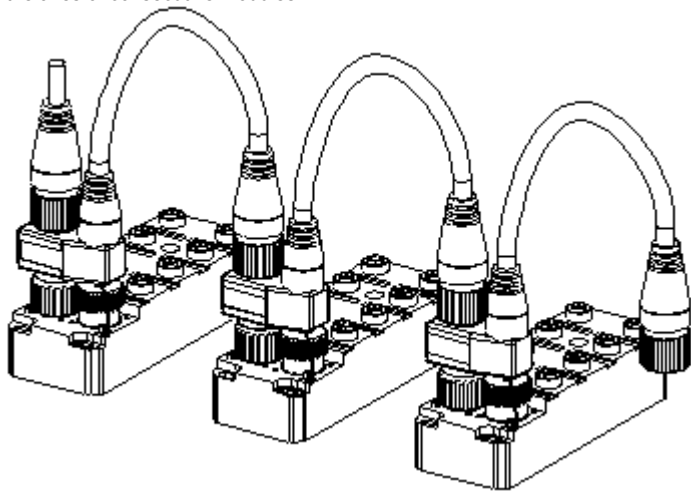
Vertical dimensions including TSXEFACC connector



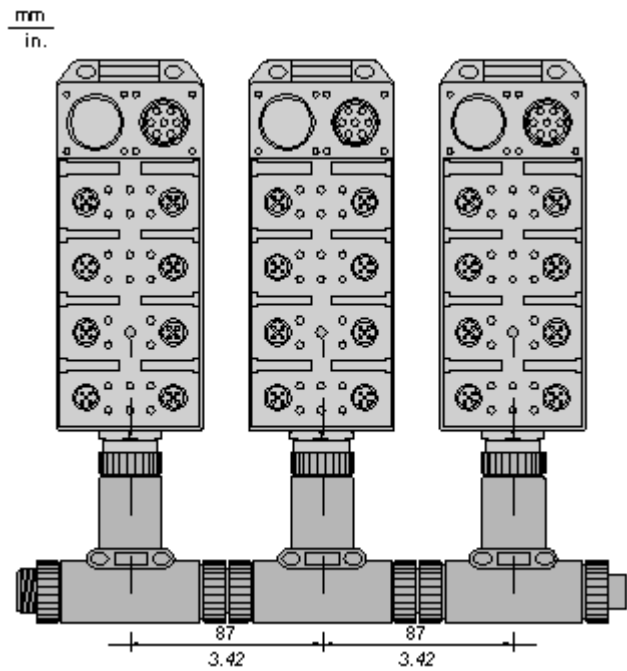
Mounting and Clearance

Installation Principles

The input or output modules can be mounted side-by-side, whilst maintaining a distance of 87 mm/3.42 in. in between the axes of consecutive modules.

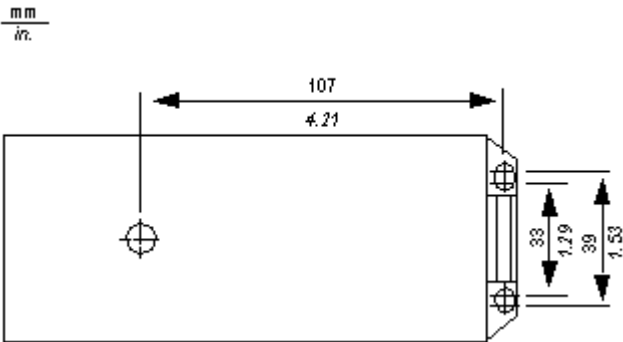


The use of a T connection for the output power supplies requires a minimum distance of 87 mm/3.42 in. in between two modules.



Mounting

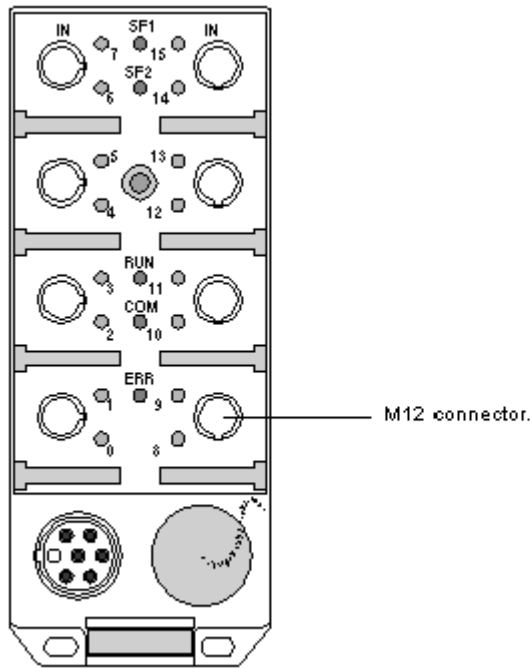
Location of Drill Holes



Connections and Schema

Connection of Module Inputs

Each group of two inputs of the module uses an M12 connector (two inputs per connector).

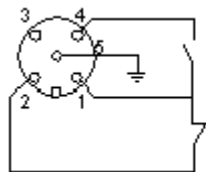


M12 connector.

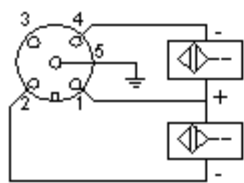


1	24VDC
2	Odd sensor input
3	0 VDC
4	Even sensor input
5	Ground

Mechanical contacts:



2-wire DDP:



3-wire DDP:

