

Remote I/O

IS1+ Remote I/O Termination board

For Zone 2

9491/T1-16-02 Art. No. 273019



- Redundant operation of IS1+ I/O modules
- Suitable for I/O modules with non-intrinsically safe I/O from firmware 4.xx
- Simple installation on DIN rail and connection via push-in terminals
- Installation in Zone 2

WebCode 9491A



Type 9491/T1 termination boards and the corresponding type 9491/Z1 connection cables are accessories for the IS1+ Remote I/O system. The devices can be used in hazardous areas in Zone 2 as well as in safe areas, and are used for parallel switching of non-intrinsically safe field circuits of two IS1+ I/O modules of the same type (from firmware 4.xx) and thereby enable I/O redundancy.

Technical Data

Explosion Protection

Application range (zones)	2
Ex interface zone	2
IECEX gas certificate	IECEX TUR 19.0072X
IECEX gas explosion protection	Ex ec IIC T4 Gc
ATEX gas certificate	TÜV 19 ATEX 8462 X
ATEX gas explosion protection	Ⓔ II 3 G Ex ec IIC T4 Gc
Certificates	ATEX (TUR), China (NEPSI), IECEX (TUR), Korea (KTL)
Ship approval	LR
Declaration of Conformity	ATEX (EUK), China (CCC)

Electrical Data

Signal types	Digital output
Type of signal	24 V/0.5 A DO Low power 6V/2 mA DO
Number of channels	16
Nominal voltage Un, digital	24 V DC (18 to 32 V DC)
Nominal current, digital (Out)	0 – 0.5 A

Auxiliary Power

Auxiliary power	without
Polarity reversal protection	Yes, mechanical

Galvanic Isolation

Test voltage for galvanic separation	According to standard IEC EN 60079-11
Galvanic separation input to output	1800 V AC

Input

Input	Primary, redundant
Function	Connection to I/O modules

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Input

Compatible I/O modules	9471/35 9472/35
Number of input connections	4
Number of required connection cables	4

Output

Output	Simplex
Output function	Connection to field device
Number of output connections	4

Ambient Conditions

Ambient temperature	-40 °C ... +75 °C
Ambient temperature	-40 °F ... +167 °F
Storage temperature	-40 °C ... +80 °C
Storage temperature	-40 °F ... +176 °F
Maximum relative humidity	95% (without condensation)
Max. operating altitude	< 2000 m
Max. operating altitude, ft	< 6562 ft
Electromagnetic compatibility	Checked in accordance with the following standards and regulations: EN 61326-1 For use in industrial areas: NAMUR NE 21

Mechanical Data

Degree of protection (IP) (IEC 60529)	IP20
Module enclosure	Polyamide 6GF
Fire resistance (UL 94)	V2
Pollutant class	Corresponds to G3
Stripping length	min. 9 mm
Weight	300 g
Weight	0.662 lb

Mounting / Installation

Mounting type	DIN rail NS35/15, NS35/7.5
Mounting orientation	any
Connection type	Push-in terminal, 12-pole
Connection type 2	Sub-D socket, 24-pole Screw lock
Min. rigid conductor cross section	0.08 mm ²
Conductor cross-section rigid AWG min.	AWG 28
Max. rigid conductor cross section	1.5 mm ²
Conductor cross-section rigid AWG max.	AWG 16
Min. flex conductor cross section	0.25 mm ²
Conductor cross-section flex AWG min.	AWG 24
Max. flex conductor cross section	1.5 mm ²
Conductor cross-section flex AWG max.	AWG 16

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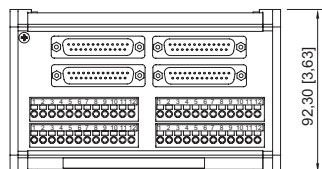
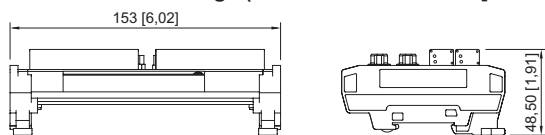
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Type 9491/T1-16-02

Accessories

Connecting cable		Art. No.
	The connection cables are used for the connection between the redundant I/O modules and the termination board. Cable length: 0.5 m	276888
	The connection cables are used for the connection between the redundant I/O modules and the termination board. Cable length: 1 m	276889

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.