



I.S. Isolators (Modules) Module Carrier Type 9161

- Module carrier for 16 or 32 signals
- Completely pluggable modules 91xx with many functions
- Connection to HART Management System
- Plug-in position for HART Multiplexer
- I.S. connections with option of plugged terminals or system connector
- System cable to automation system
- Redundant power supply with signalling contact
- Signal doubling for inputs (monitoring)
- Loop-in of non-I.S. signals
- Horizontal or vertical mounting
- Front connection design
- Simple mounting on 35 mm DIN rail or mounting plate

Basic function: Electrical and mechanical integration of the I.S. isolators (modules 91xx) into automation systems.

Selection table	
Version	Ordering code
Module carrier	9161/*
<p>*System-specific module carriers are deliverable for:</p> <ul style="list-style-type: none"> • ABB • Fisher-Rosemount • Yokogawa • Triconex • Siemens <p>Others on request</p>	
Technical data	
Power supply	
Rated voltage U_N	24 V DC
Voltage range	19 .. 35 V
Indication	LED green
Polarity reversal protection	yes
Fuse	6.3 A low contact
Power failure signal	contact
Connections	PCB terminals 8 x 2.5mm ² (X31)
Module plug-in position	
Connections	17 way socket (S01 .. S16)
Fastening	2 x M3
Interface I.S. (field)	
Connections	Combicon terminal strip plugged 4 x 16 way blue 2.5 mm ² female connector DIN 41 612 2 x 32 way for 0.5 mm ² cores
or	PCB terminals 2 x 32 St. 2.5 mm ² (X11A, X11B)
or	
Interface for monitoring / loop-in	
This interface is used	
either for loop-in:	
instead of an I.S. signal, a non-intrinsically safe signal can be looped in or out of the system connection to the automation system: a connection module (see accessories) must be inserted for this purpose.	
used for: all module plug-in positions of the module carrier (S01 .. S16)	
or for monitoring:	
an input signal to the automation system can be picked off a second time (monitoring), e.g. for	
Connection of a recorder	
Connection with ribbon cable pin connector DIN 41 651	
Interface to automation system (DCS)	
Connection system-specific with ELCO, SUB-D or special plug	
HART Interface	
Connections FSK-HART individual signals	
48 way pin connector for HART multiplexer 9148 (S17)	
Connections HART RS 485; only in combination with HART multiplexer 9148 PCB terminals 2 x 3 St. 1.5 mm ² (X03)	
Cold junction compensation for thermocouples	
Socket for cold junction compensation (CJC 01 .. 16) see accessories 9191/VS-01	
Ambient conditions	
Operating temperature range	
Mounting position horizontal	-20 .. +65 °C
Mounting position vertical	-20 .. +45 °C
Storage temperature range	-40 .. +70 °C
Relative humidity (no condensation)	≤ 95 %

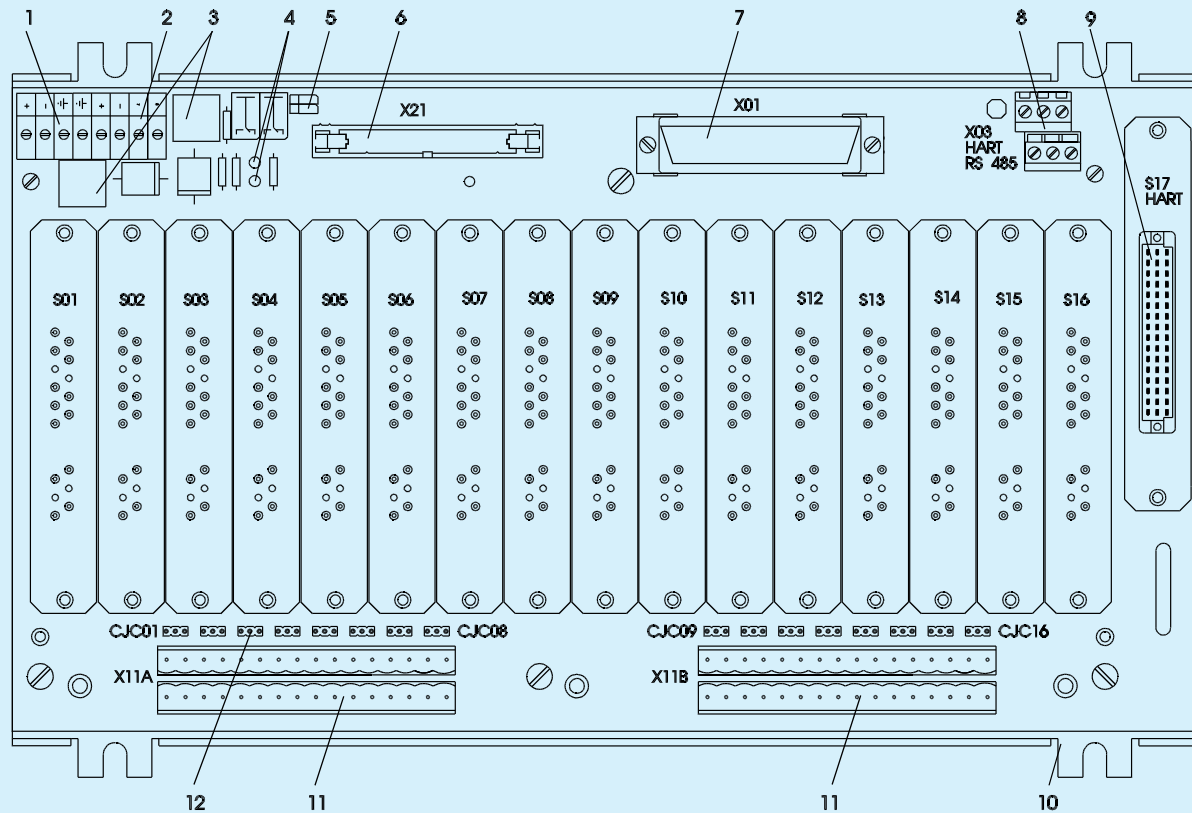


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Mechanical data

Dimensions	304 x 200 x 148 mm (323 x 200 x 148 mm with plug-in position S17 for HART multiplexer)
Weight	approx. 1000 g
Mounting type	on mounting plate (4 x M6) or 35 mm DIN rail
Mounting position	horizontal or vertical
Mounting location	outside hazardous area
Connections	see technical data
Protection class	IP 00 (IEC 529) The module carriers must be installed, so that at least protection class IP 20 is ensured.
Terminal protection class	IP 20 (IEC 529)

Construction drawing



Construction

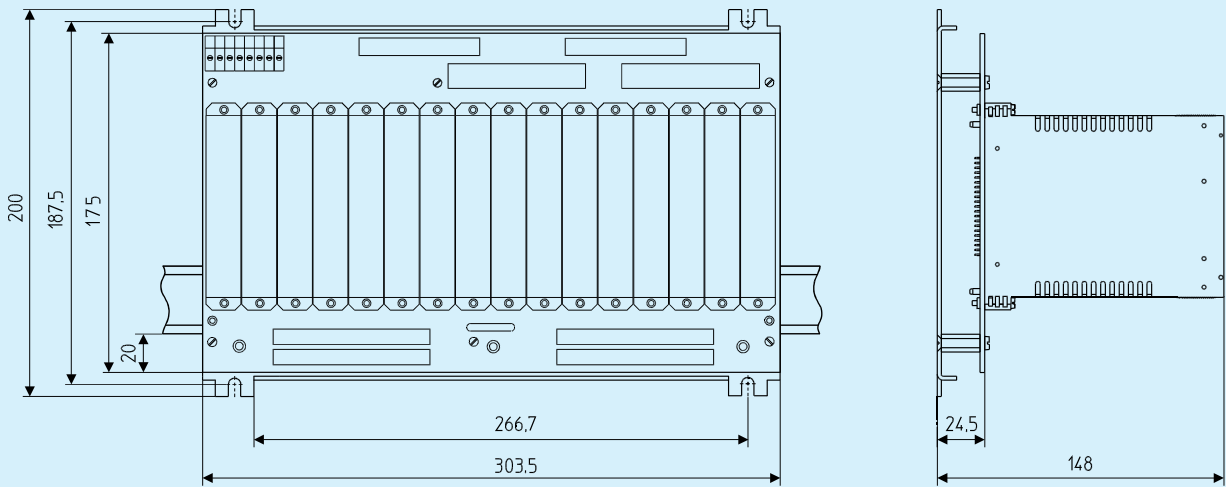
- 1 Terminals for power supply (option: redundant) 24V DC
- 2 Terminals for signalling power supply failure (option)
- 3 Power supply fuse (option: without fuse)
- 4 LED indication for power supply and fuse
- 5 Jumper for power supply failure signal to automation system
- 6 Pin connector for connection of monitoring / loop-in
- 7 System connector to automation system
- 8 Terminals for HART RS 485
- 9 Plug-in position for HART multiplexer
- 10 Mounting tray
- 11 I.S. connection for field circuits (options)
- 12 Plug-in position for thermocouple cold junction compensation

not shown:

Label holder
Earth rail for cable screen

Dimensions (all dimensions in mm)

Module carriers for 16 modules



Module carriers for 16 modules and HART multiplexer

