

Remote I/O

Remote I/O IS1+ BusRail connecting line

70 cm

9494/L1-V7 Art. No. 261795



- For the internal electrical connection between CPU & power module and 8 I/O modules for Div. 1, Zone 1 and 16 I/O modules for Div. 2, Zone 2
- Redundant data bus, power bus with high availability
- Simple, protected installation in NS35/15 DIN rails
- Passive component with redundancy and high availability

MY R. STAHL 9494A



The series 9494 bus rails are used as a backplane bus for the IS1+ remote I/O system. They include an Ex i power bus boasting high availability, a redundant Ex i data bus and address lines. The bus rails are available for 2 or 4 modules and can be combined for up to 18 slots. The BusRail extension cable can be used to place BusRail segments anywhere in the field enclosure.

Technical Data

Explosion Protection

| | |
|--------------------------------|---|
| Application range (zones) | 1, 2 |
| IECEX gas certificate | IECEX PTB 17.0013X |
| IECEX gas explosion protection | Ex ia IIC T4 Gb |
| ATEX gas certificate | PTB 17 ATEX 2003 X |
| ATEX gas explosion protection | Ex II 2 G Ex ia IIC T4 Gb |
| FMus certificate | FM17US0332X |
| cFM certificate | FM16CA0134X |
| Marking cFMus | IS, Class I,II,III, Div. 1, Groups A,B,C,D; Class I, Zone 1, AEx/Ex ia Group IIC T4 at Ta = 75°C See Doc. 9494 6 031 001 1 |
| Certificates | ATEX (PTB), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (PTB), Korea (KTL), USA (FM) |
| Ship approval | ABS, BVIS, EU RO MR (DNV), KR, LR |
| Declaration of conformity | ATEX (EUK), China (CCC) |

Electrical Data

| | |
|-----------------------------|--|
| Version | 27.56 in / 70 cm |
| Redundant internal data bus | Yes |
| Internal power supply | Highly available |
| Max. BusRail length | 118 in / 3 m, incl. connection cable |
| Engineering note | The BusRail is available in lengths for 2 or 4 modules. One end piece each is necessary at the beginning and the end. The end pieces are available as "BusRail beginning" and "BusRail end" as well as with an integrated connecting line. The connecting line allows for multiple BusRail segments to be set up in one enclosure. |

Ambient Conditions

| | |
|------------------------|------------------|
| Ambient temperature °C | -40°C ... +75°C |
| Ambient temperature °F | -40°F ... +167°F |
| Storage temperature °C | -40°C ... +80°C |

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| | |
|-------------------------------|---|
| Max. relative humidity | 95% (without condensation) |
| Max. operating altitude | < 2000 m |
| Max. operating altitude | 2000 m |
| Shock (semi-sinusoidal) | (IEC EN 60068-2-27) 15 g (3 shocks per axis and direction) |
| Vibration (sinusoidal) | (IEC EN 60068-2-6) Frequency range 2 ... 13.2 Hz Amplitude 1 mm (peak value) Frequency range 13.2 ... 100 Hz Acceleration amplitude 0.7 g |
| Electromagnetic compatibility | Tested to the following standards and regulations: EN 61326-1 (2006) IEC 61000-4-1 to 61000-4-6, NAMUR NE 21 |

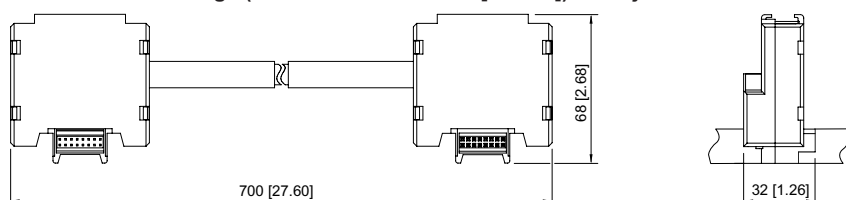
Mechanical Data

| | |
|--|---------------------|
| Degree of protection (IP) (IEC 60529) | IP30 |
| Module enclosure | PA6 |
| Fire resistance (UL 94) | Fire-resistant |
| Pollutant class | Halogen-free |
| Max. auxiliary contact connection cross-section, solid | 1.2 mm ² |
| Width | 700 mm |
| Height | 68 mm |
| Length | 32 mm |
| Weight | 210 g |

Mounting / Installation

| | |
|---------------|----------------------|
| Mounting type | Front panel mounting |
|---------------|----------------------|

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



BusRail Connection line

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.