

## Remote I/O

### IS1+ Remote I/O BusRail

For 2 modules, end

9494/S1-E2 Art. No. 261799



- To provide an internal electrical condition between the CPU & power modules and up to 16 I/O modules
- Redundant data bus, power bus with high availability
- Simple and protected installation on NS35/15 DIN rails
- Passive component with redundancy and high availability

MY R. STAHL 9494A



The 9494 BusRails 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 BusRails are available for two or four modules and can be combined for up to 18 slots. The BusRail extension cable can be used to position BusRail segments anywhere in the field enclosure.

## Technical Data

### Explosion Protection

|                                |   |
|--------------------------------|---|
| Application range (zones)      | 1<br>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;<br>Class I, Zone 1, AEx/Ex ia Group IIC<br>T4 at Ta = 75°C<br>See Doc. 9494 6 031 001 1 |
| Certificates                   | ATEX (PTB), 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                     | For 2 modules, end   |
| Number of slots             | For 2 modules  |
| Expandable at the beginning | Yes  |
| Expandable at the end       | No   |
| Redundant internal data bus | Yes  |
| Internal power supply       | Highly available   |
| Max. BusRail length         | 3 m incl. connecting line  |
| Engineering note            | The BusRail is available in lengths for two or four modules. One end piece is necessary at both the beginning and 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 constructed in one enclosure. |

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### Ambient Conditions

|                               |   |
|-------------------------------|---|
| Ambient temperature           | -40°C ... +75°C   |
| Ambient temperature           | -40°F ... +167°F  |
| Storage temperature           | -40°C ... +80°C   |
| Maximum relative humidity     | 95% (without condensation)  |
| Max. operating altitude       | < 2000 m  |
| Shock (semi-sinusoidal)       | (IEC EN 60068-2-27)<br>15 g (3 shocks per axis and direction)   |
| Vibration (sinusoidal)        | (IEC EN 60068-2-6)<br>Frequency range 2 to 13.2 Hz Amplitude 1 mm (peak value)<br>Frequency range 13.2 to 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                                  |

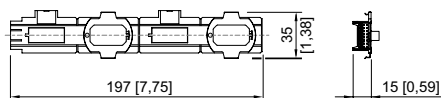
### Mechanical Data

|  |                     |
|--|---------------------|
| Degree of protection (IP) (IEC 60529)                  | IP30                |
| Module enclosure                                       | PA6                 |
| Fire resistance (UL 94)                                | V2                  |
| Pollutant class  | Halogen-free        |
| Max. auxiliary contact connection cross-section, solid | 1.2 mm <sup>2</sup> |
| Width  | 197 mm              |
| Height   | 15 mm               |
| Length   | 35 mm               |
| Weight   | 62 g                |
| Weight   | 0.14 lb             |

### Mounting / Installation

|                      |                                     |
|----------------------|-------------------------------------|
| Mounting type        | on NS 35/15 DIN rail (DIN EN 60715) |
| Mounting orientation | Horizontal<br>Vertical              |

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



BusRail, end

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.