



- For supplying field devices with intrinsically safe auxiliary power, variants for many applications
- Flexible and space-saving devices that are easy to install on a DIN rail
- Reduced stock-keeping thanks to a uniform back-up fuse

A2

WebCode 9004A



R. STAHL's series 9004 INTRINSPAK single-channel safety barriers are ideally suited to supplying field devices with intrinsically safe auxiliary power due to their electronic current limiting. They have a particularly good power yield and are available in many variants for circuits with a negative or positive potential, including for unregulated power supplies.

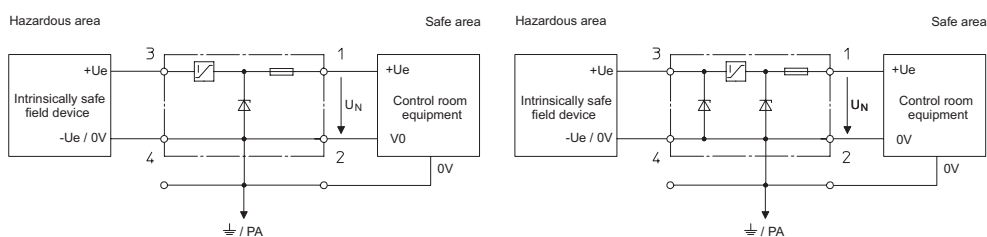
| | IECEX / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Ex interface | | • | • | | • | • |
| Installation in | | | • | | | |

| Selection Table | | | | | | | |
|-----------------|---------------------------------|--|--------------------|--------------------|------------------|---------------------|----------|
| Product variant | | Series 9004/01, for positive potential | | | | | |
| Nominal voltage | Minimum resistance R_{min} | Maximum resistance R_{max} | Max. voltage U_0 | Max. current I_0 | Max. power P_0 | Product Type | Art. No. |
| 12 V DC | 26 Ω | 30 Ω | 16.8 V | 50 mA | 840 mW | 9004/01-168-050-001 | 159060 |
| Product variant | | Series 9004/51, for positive potential with voltage limiting | | | | | |
| Nominal voltage | Minimum resistance R_{min} | Maximum resistance R_{max} | Max. voltage U_0 | Max. current I_0 | Max. power P_0 | Product Type | Art. No. |
| 23 to 27 V DC | – | – | 20.6 V | 85 mA | 1751 mW | 9004/51-206-085-001 | 159094 |

| Technical Data | |
|---------------------------------|---|
| Explosion Protection | |
| IECEX gas explosion protection | Ex ec [ib Gb] IIC T4 Gc |
| IECEX dust explosion protection | [Ex ib Db] IIIC |
| ATEX gas explosion protection | Ex II 3 (2) G Ex ec [ib Gb] IIC T4 Gc |
| ATEX dust explosion protection | Ex II (2) D [Ex ib Db] IIIC |
| Certificates | ATEX (PTB), Canada (CSA), IECEX (PTB) |
| Installation | in Zone 2, Division 2 and in safe areas |
| Further information | See relevant certificate and operating instructions |
| Ambient Conditions | |
| Ambient temperature | -20 °C ... +60 °C |
| Storage temperature | -20 °C ... +75 °C |
| Mechanical Data | |
| Degree of protection (IP) | IP40 |

| Technical Data | |
|-------------------------------------|--------------------------|
| Mechanical Data | |
| Degree of protection (IP) terminals | IP20 |
| Enclosure material | Polyamide 6GF |
| Number of connection terminals | 4 |
| Connection cross-section max. | 1,5 mm ² |
| Type of connection cable | Finely stranded Solid |
| Weight | 116 g |
| Weight | 0.26 lb |

Technical Drawings – Subject to Alterations



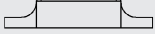
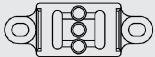
Single-Channel Safety Barriers with Electronic Current Limitation for Positive Polarity

Single-Channel Safety Barriers with Electronic Current Limitation for Positive Polarity with Voltage Limitation


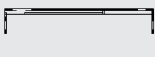
Accessories

| Figure | Description | Art. No. | Weight |
|--|---|----------|--------|
| Adaptor | | | |
| | The adaptor enables a series 900x safety barrier to be installed on a mounting plate from a previous series. | 158826 | 6 g |
| Clamping base, moulded material | | | |
| | Enables the safety barrier to be mounted on a G-rail. | 165283 | 4 g |
| Protective conductor terminal | | | |
| | USLKG 5 (clamping range 4 mm ²) The terminal enables protective conductors to be connected to the DIN rail. Colour green-yellow. | 112760 | 12 g |
| Earthing terminal | | | |
| | USLKG 6 N (clamping range 6 mm ²) The terminal enables protective conductors/earthing conductors to be connected to the DIN rail. Colour green-yellow. | 112599 | 30 g |
| Fuse holder | | | |
| | The fuse holder is snapped onto the side of a safety barrier and can be equipped with up to five back-up fuses (replacement). | 158834 | 20 g |

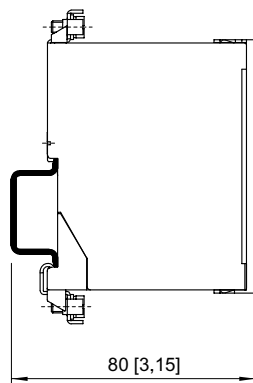
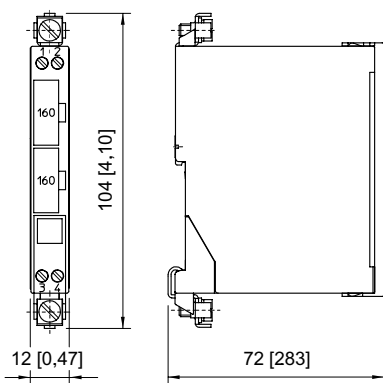
Accessories

| Figure | Description | Art. No. | Weight |
|---|---|----------|--------|
| Insulation and fastening material | | | |
|  | Suitable for the NS 35/15 DIN rail, makes it possible to install the DIN rail such that it is electrically insulated from the mounting plate. | 158828 | 23 g |
|  | | | |

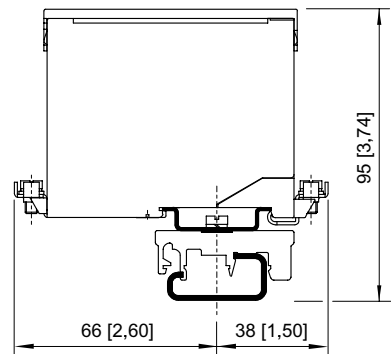
Spare Parts

| Figure | Description | Art. No. | Weight |
|---|--|----------|--------|
| Back-up fuse | | | |
|  | For all series 9001, 9002 and 9004 safety barriers Packaging unit: 5 pieces | 158964 | 8 g |
| Label carrier | | | |
|  | Transparent cover for the label | 158977 | 2 g |

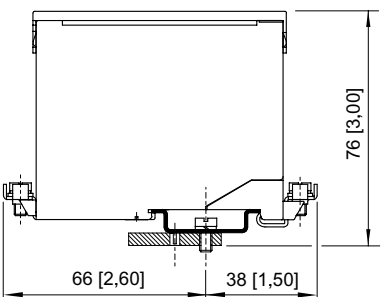
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



mounted on the NS 35/15 mounting rail



mounted on the NS 32 mounting rail with adaptor and clamping base made of moulded material



installed on mounting plate with adaptor