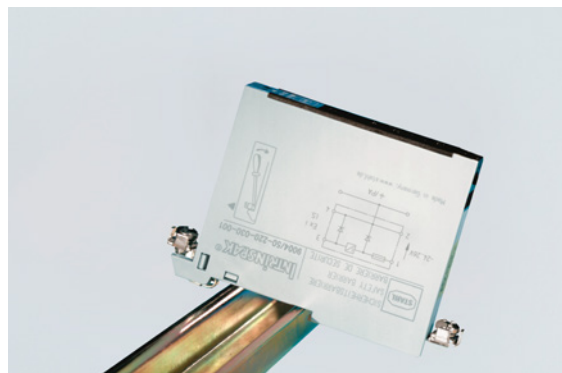


9004/51-206-085-001 Art. No. 159094



- For supplying field devices with intrinsically safe auxiliary power, variants for many applications
- Flexible, space-saving devices that are easy to install on a DIN rail
- Reduced storage due to standardised back-up fuse

WebCode 9004A



R. STAHL's 9004 series INTRINSPAK single-channel zener barriers are ideally suited to supplying field devices with intrinsically safe auxiliary power due to their electronic current limitation. 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.

Technical Data

Explosion Protection

Application range (zones)	2
Ex interface zone	1 2 21 22
IECEX gas certificate	IECEX PTB 12.0003X
IECEX gas explosion protection	Ex nA [ib Gb] IIB T4 Gc
IECEX dust certificate	IECEX PTB 09.0001X
IECEX dust explosion protection	[Ex ib Db] IIIC
ATEX gas certificate	PTB 02 ATEX 2008
ATEX gas explosion protection	⊕ II 3 (2) G Ex nA [ib Gb] IIB T4 Gc
ATEX dust certificate	PTB 01 ATEX 2088 X
ATEX dust explosion protection	⊕ II (2) D [Ex ib Db] IIIC
cCSA certificate	1497596
Certificates	ATEX (PTB), Canada (CSA), IECEX (PTB)
Installation	in Zone 2, Division 2 and in safe area
Further information	see respective certificate and operating instructions

Safety Data

Max. voltage U_o	20.6 V	
Max. current I_o	85 mA	
Max. power P_o	1751 mW	
Intrinsically safe limiting values inductance L_o / capacitance C_o	Max. connectable inductance L_o / capacitance C_o	Jointly connectable inductance L_o / capacitance C_o
IIC	L_o [mH] C_o [μF]	
IIB	L_o [mH] C_o [μF]	0.370 mH 0.680 μF
		0.37 mH 0.68 μF
		0.20 mH 0.85 μF

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Electrical Data

Number of channels	1
Maximum output current I_{max}	70 mA
Potential	Positive w. voltage limitation
Transmission frequency channel 1	≤ 10 kHz
I_{leak} leakage current for U_n	< 2 mA

Auxiliary Power

Nominal voltage	23 to 27 V DC
Power supply	Uncontrolled

Ambient Conditions

Ambient temperature	-20 °C ... +60 °C
Ambient temperature	-4°F ... +140°F
Storage temperature	-20 °C ... +75 °C
Storage temperature	-4°F ... +167°F
Maximum relative humidity	95% average, no condensation
Temperature influence	$\leq 0,25$ %/10K

Mechanical Data

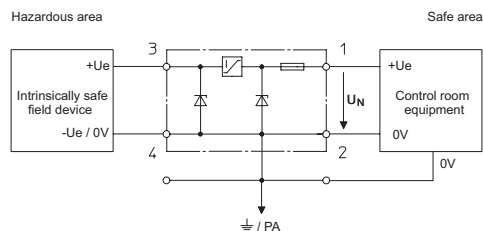
Degree of protection (IP)	IP40
Degree of protection (IP) terminals	IP20
Enclosure material	Polyamide 6GF
Number of connection terminals	4
Connection cross-section AWG	16 AWG
Type of connection cable	Finely stranded Solid
Width	103 mm
Width, inches	4.09 in
Length	12 mm
Length, inches	0.48 in
Depth of cut-out	72 mm
Mounting depth, inches	2.76 in
Weight	0.126 kg
Weight	0.28 lb

Mounting / Installation

Earthing connection cross-section	4 mm ²
Earthing conductor cross-section AWG	12 AWG
Connection type	2 PA
Min. torque, Nm	0.5 Nm
Min. torque, lb/in	4.43 lb/in
Max. torque, Nm	0.6 Nm
Max. torque, lb/in	5.31 lb/in

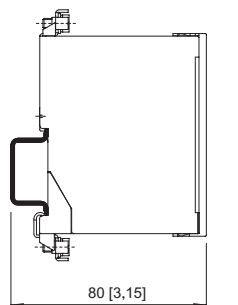
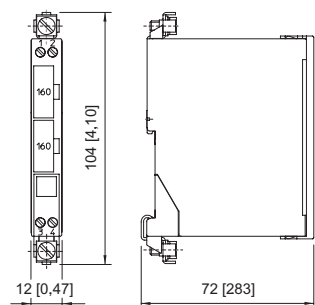
9004/51-206-085-001 Art. No. 159094

Technical Drawings – Subject to Alterations

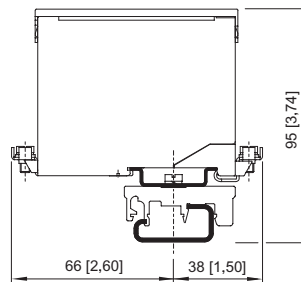


Single-Channel Safety Barriers with Electronic Current Limitation for Positive Polarity with Voltage Limitation

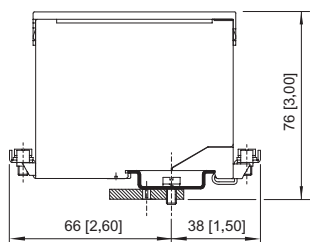
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Mounting on DIN rail NS 35/15



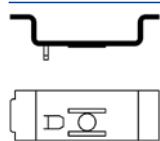
Mounting on DIN rail NS 32 by means of adaptor and mounting attachment, moulded plastic



Mounting on mounting plate by means of adaptor

Accessories

Adaptor

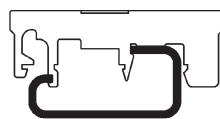


Adaptor allows installation of a safety barrier Series 900x on a mounting plate of a previous series.

Art. No.

158826

Mounting attachment moulded plastic

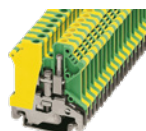


Enables mounting of safety barrier on a G-rail.

Art. No.

165283

Protective conductor terminal



USLKG 5 (clamping range 4 mm²)
Terminal enables connection of protective conductors to DIN rail. Colour green-yellow.

Art. No.

112760

Safety Barriers

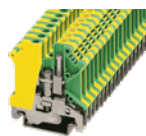
Single-channel safety barriers With electronic current limiting



9004/51-206-085-001 Art. No. 159094

Earth terminal

Art. No.

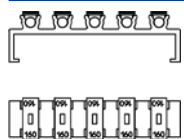


USLKG 6 N (wire range 6 mm²)
Terminal enables connection of protective / earthing conductors to DIN rail. Colour green-yellow.

112599

Fuse holder

Art. No.

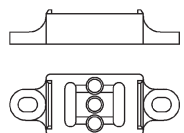


Fuse holder is snapped onto the side of the safety barrier and can be equipped with up to 5 back-up fuses (replacement).

158834

Insulating stand off

Art. No.



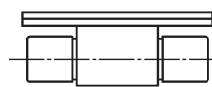
Suitable for DIN rail NS35/15, allows electrically insulated mounting of DIN rail from mounting plate.

158828

Spare Parts

Back-up fuse

Art. No.

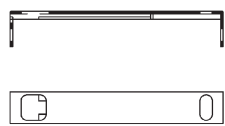


For all safety barriers Series 9001, 9002 and 9004
Packaging unit: 5 pcs.

158964

Holder for label

Art. No.



Transparent cover for labelling

158977

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