

9001/01-280-165-101 Art. No. 158392



- For the intrinsically safe operation of a wide range of devices, such as HART transmitters, solenoid valves, sensors, zero-potential contacts and many more
- Compact, space-saving devices that are easy to install on a DIN rail
- Quick to install as barriers can be simultaneously snapped onto rail and connected to PE

WebCode **9001A**



The 9001 series INTRINSPAK single-channel safety barriers enable the intrinsically safe operation of virtually all field devices. The comprehensive portfolio and the combination of safety barriers cover a wide variety of signals. The devices are incredibly robust and require little space. The back-up fuse is a convenient feature as it is standardised for all variants.

Technical Data

Explosion Protection

Application range (zones)	2 22
Ex interface zone	0 1 2 20 21 22
IECEX gas certificate	IECEX PTB 09.0001X
ATEX gas certificate	PTB 01 ATEX 2088 X
IECEX dust certificate	IECEX PTB 09.0001X
ATEX dust certificate	PTB 01 ATEX 2088 X
Gas explosion protection IECEx	Ex nA [ia Ga] IIC/IIB T4 Gc
Gas explosion protection ATEX	Ex II 3 (1) G Ex nA [ia Ga] IIC/IIB T4 Gc
Dust explosion protection IECEx	[Ex ia Da] IIIC
Dust explosion protection ATEX	Ex II (1) D [Ex ia Da] IIIC
Certificates	ATEX (PTB), Brazil (ULB), Canada (CSA), EAC (STV), IECEx (PTB), Korea (KGS), USA (FM), USA (UL)
EAC certificate	TS RU S-DE.GB04.B.00132
Installation	in Zone 2, Division 2 and in safe area

Safety Data

Max. voltage U_o	28 V
Max. current I_o	165 mA
Max. power P_o	1155 mW
Max. permissible ex. capa. IIB	0.65 μ F
Max. permissible ex. induc. IIB	3.5 mH
Further information	see respective certificate and operating instructions

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Electrical Data

Number of channels	1
DC rated operational voltage	24 V
Power supply	Controlled, nominal voltage
Nominal voltage	24 V
Maximum resistance R _{max}	198 Ω
Minimum resistance R _{min}	177 Ω
Maximum output current I _{max}	110 mA
Potential	Positive potential
Ohm.curr.lim.usingfreq.>= 50mA	≤ 100 kHz
Ohm.curr.lim.usingfreq<= 50 mA	≤ 50 kHz
I _{leak} leakage current for U _n	≤ 2 μA
I _{leak} leakage current for U _n 2	(Unless specified otherwise)

Ambient Conditions

Min. ambient temperature	-20 °C
Max. ambient temperature	+60 °C
Ambient temperature	-20 °C ... +60 °C
Min. storage temperature	-20 °C
Max. storage temperature	+75 °C
Storage temperature	-20 °C ... +75 °C
Maximum relative humidity	95% on av., no condensation
Temperature influence	≤ 0,25 %/10K

Mechanical Data

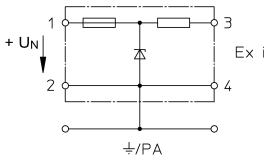
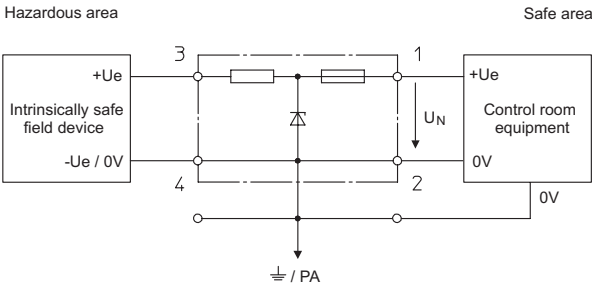
Degree of protection (IP)	IP40
Type of protection note	according to IEC 60529
Terminal degree of prot. (IP)	IP20
Enclosure material	Polyamide 6GF
Number of connection terminals	4
Max. clamping range	1.5 mm ²
Connection cross-section	4 mm ²
Type of connection cable	Finely stranded Solid
Width	103 mm
Length	12 mm
Mounting depth	72 mm
Weight	0.11 kg

Mounting / Installation

Connection type	2 PA
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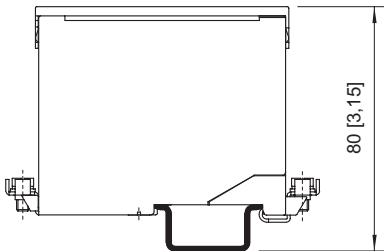
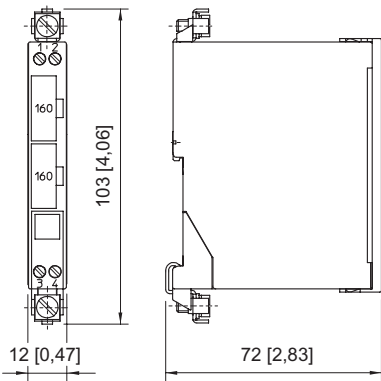
Technical Drawings



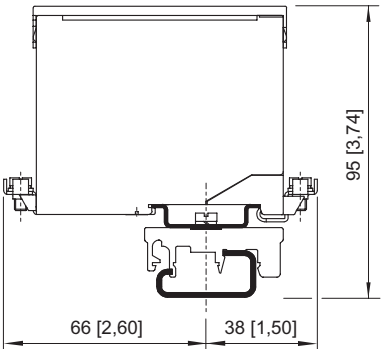
Picture B

Single-Channel Safety Barriers for Positive Polarity

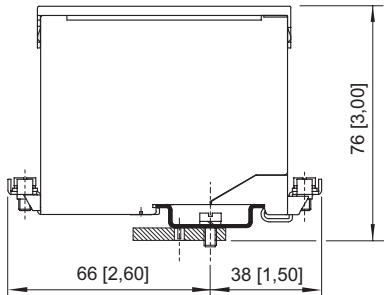
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Mounting on DIN rail NS 35/15



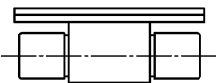
Mounting on DIN rail NS 32 by means of adaptor and mounting attachment, moulded plastic



Mounting on mounting plate by means of adaptor

Accessories and Spare Parts

Back-up fuse

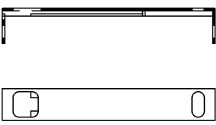


For all safety barriers Series 9001, 9002 and 9004 unit: 5 pcs.

Art. No.

158964

Holder for label



Transparent cover for labelling

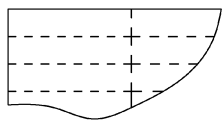
Art. No.

158977

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Labelling paper

Art. No.

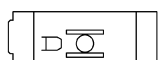


Perforated, for typing
Format: DIN A4
Packaging unit: 80 pieces

158973

Adaptor

Art. No.

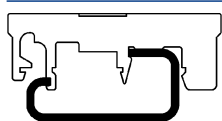


Adaptor allows installation of a safety barrier Series 900x on a mounting plate of a previous series.

158826

Mounting attachment moulded plastic

Art. No.

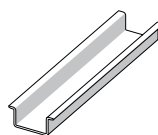


Enables mounting of safety barrier on a G-rail.

165283

DIN rail

Art. No.

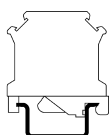


NS35/15 (meter length)

103714

Earth terminal

Art. No.



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

112760

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.

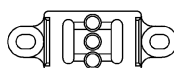


Fuse holder is snapped onto the side of the safety barrier and can be equipped with up to 5 back-up fuses (replacement).

158834

Insulating stand off

Art. No.



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

158828

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.