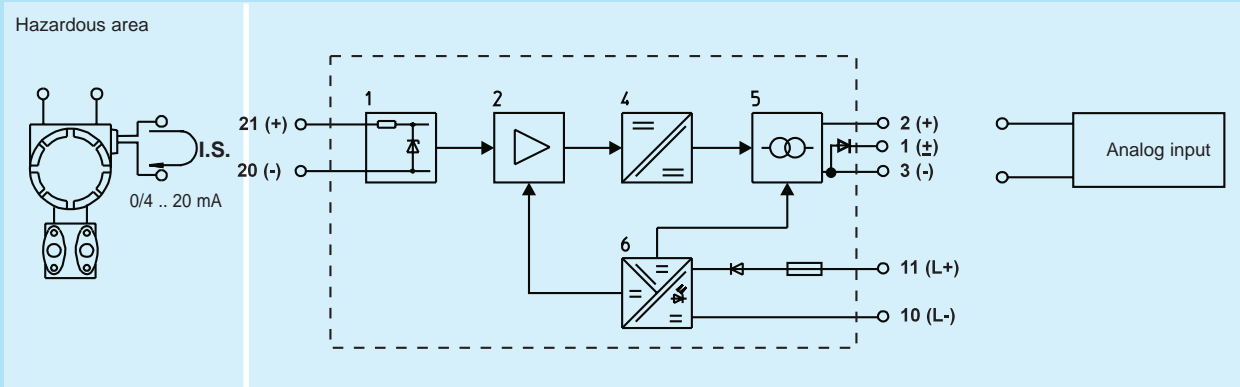




I.S. Isolators (Modules) mA Isolating Repeater Type 9118/11

- Intrinsically safe input [EEx ia] IIC
- For signals 4 .. 20 mA or 0 .. 20 mA
- Galvanic isolation between input, output and power supply
- Open-circuit monitoring
- Power supply 18 .. 35 V DC
- EMC tested, CE marking

Basic function: analog input, 0/4 .. 20 mA, 1 channel.
These isolators are suitable for intrinsically safe operation of 3- or 4-wire transmitters.



Selection table

Version	Ordering code
mA isolating repeater, intrinsically safe input	9118 / 11 - 11 - 10

Safety data for input

Certifications	BVS (Europe, CENELEC), CSA (Canada), SEV (Switzerland), FTZU (Czech Republic), EVPU (Slovakia), FM (USA)
Marking	[EEx ia] IIC/IIB according to CENELEC
Classification	associated electrical apparatus

Safe maximum values (CENELEC)

Max. voltage U_m	8.7 V
Max. current I_m	0.4 mA
Max. power P_m	11 mW
For connection to certified intrinsically safe circuits with max. values 30 V, 110 mA.	
Internal capacitance	$C_i \sim 0$
Internal inductance	$L_i \sim 0$

Further information and combinations of values, see certifications

Technical data

Power supply	
Rated voltage U_N	24 V DC
Voltage range	18 .. 35 V
Rated current (for U_N , $I_L = 20$ mA) I_N	52 mA
Max. power consumption	1.25 W
Polarity reversal protection	yes
Signal transmission	
Current range	$I_L = I_E$ 0 .. 22 mA
Response time (10 .. 90%)	\leq 25 ms
Input	
Input resistance	50 Ω
Output	
Load resistance	$R_L \leq$ 600 Ω
Open-circuit	
Output behavior on open-circuit in the field circuit	$I_L =$ 0 mA
Error limits	
Tolerance band setting, in % of the measuring range	\leq 0.1 %
Linearity error for U_N , 23 °C	\leq 0.1 % / 10 K
Temperature effect	\leq 0.1 % / 10 K

