

**I.S. Isolators
(DIN Rail Mounting)
mA Isolating Repeater
Loop Powered
Type M311**

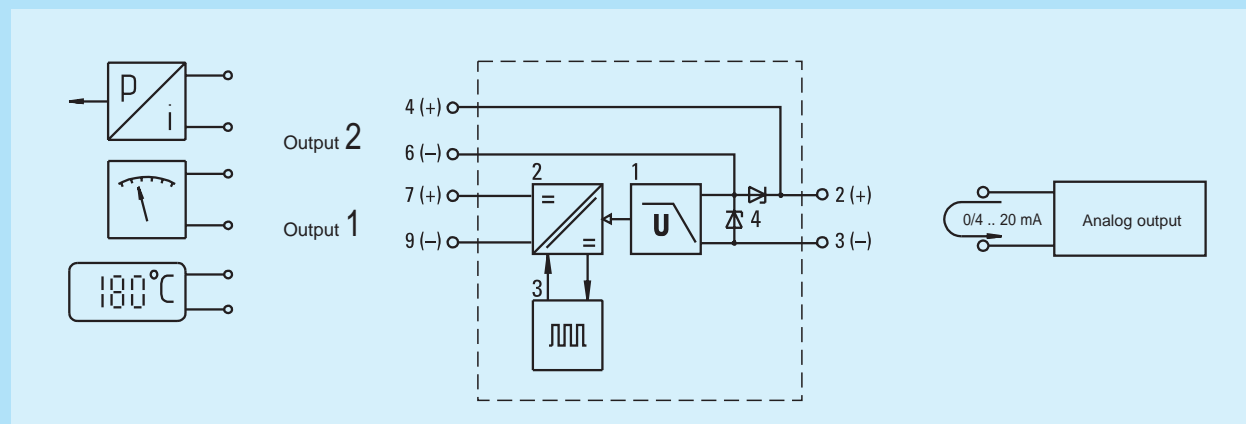
- without explosion protection
- 1 input to 2 galvanically isolated outputs
- Loop powered
- Extremely low internal resistance
- EMC tested, CE marking

STAHL

Basic function: one analog input to two analog outputs, mA.

The mA isolating repeaters M311 are used for signal multiplication of non intrinsically safe 0/4...20 mA signals.

The analog input signal (e.g. from transmitter supply unit 9303) is transferred to output 1 galvanically isolated. At the same time the input signal is available at output 2. Both outputs are decoupled via Z-diodes.



Selection table	
Version	Ordering code
mA isolating repeater loop powered	M311 / 54 - 11 - 00

Technical data	
Certification	without explosion protection
Signal transmission	
Current range (specified accuracy)	$I_A = I_E$ 0...22 mA
Internal resistance (for $I_A \leq 20$ mA)	$R_{i20} \leq$ 120 Ω
Input	
Input voltage	$U_E \leq$ 35 V
Minimum required input voltage	13.2 V
Polarity reversal protection	yes
Output	
Load resistance (for $I_A = 20$ mA)	
Output 1	$R_{L1} \leq$ 170 Ω
Output 2	$R_{L2} \leq$ 235 Ω
Open-circuit	
Input behaviour on open-circuit	$I_E \leq$ 1.0 mA
Error limits	
in % of the measuring range	
Linearity error for $R_{L1} = 100 \Omega$, 23 °C, including internal consumption	\leq ± 0.15 %
Temperature effect	\leq ± 0.05 % / 10 K
Dimensions (Casing type A), mechanical data, ambient conditions and accessories see page 3/58f.	

