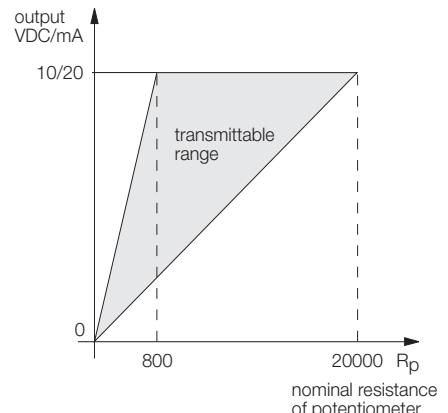
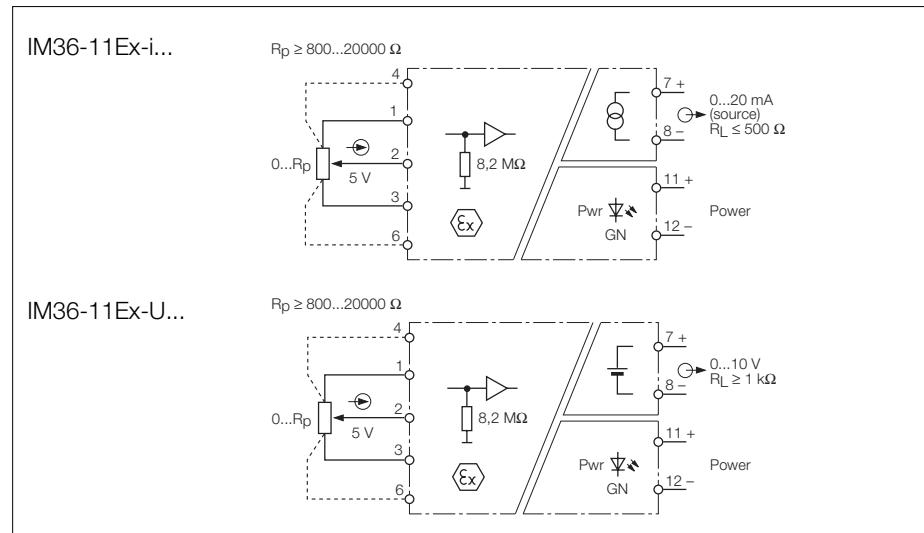


Potentiometer Transducers IM36-11Ex-i/24VDC IM36-11Ex-U/24VDC 1-channel



output of 0/2...10 V (IM36-11Ex-U...). The devices feature galvanic isolation between input circuit, output circuit and power supply.

A green LED indicates that the device is powered.



Potentiometer Transducers IM36-11Ex-i/IM36-11Ex-U

Type	IM36-11Ex-i/24VDC 7509525	IM36-11Ex-U/24VDC 7509526
Supply voltage U_B	19...29 VDC ≤ 10 % ≤ 60 mA between input circuit, output circuit and supply voltage for 250 V _{rms} test voltage 2.5 kV _{rms}	19...29 VDC ≤ 10 % ≤ 60 mA between input circuit, output circuit and supply voltage for 250 V _{rms} test voltage 2.5 kV _{rms}
Input circuit	intrinsically safe according to EN 50020 3/5-wire circuit 800...20 000 Ω ≤ 50 Ω at 800 Ω potentiometer resistance 5 V	intrinsically safe according to EN 50020 3/5-wire circuit 800...20 000 Ω ≤ 50 Ω at 800 Ω potentiometer resistance 5 V
Output circuit	current output ≤ 500 Ω 0...20 mA – –	voltage output, short-circuit protected – – ≥ 1 kΩ 0...10 V
Ex-Approvals acc. to certificate of conformity	TÜV 99 ATEX 1405	TÜV 99 ATEX 1405
Maximum values from both inputs		
– No load voltage U_0	13.8 V	13.8 V
– Short-circuit current I_0	35 mA	35 mA
– Power P_0	121 mW	121 mW
Max. external inductances/capacitances L_0/C_0		
– [EEx ia] IIC	20 mH / 760 nF	20 mH / 760 nF
– [EEx ia] IIB	100 mH / 4.9 μF	100 mH / 4.9 μF
Operating temperature T_u	-20...+60 °C	-20...+60 °C
Marking of devices	II (1) G [EEx ia] IIC	II (1) G [EEx ia] IIC
Transfer characteristics		
Linearity tolerance of setpoint adjustment	≤ 0.1 % of final value	≤ 0.1 % of final value
Measuring tolerance	≤ 0.2 % (typ. 0.1 %)	≤ 0.2 % (typ. 0.1 %)
Long term error	0.1 %/year	0.1 %/year
Ambient temperature sensitivity	≤ 0.02 %/K of final value	≤ 0.02 %/K of final value
Pulse rise time (10 %...90 %)	≤ 100 ms	≤ 100 ms
Release time (90 %...10 %)	≤ 100 ms	≤ 100 ms
LED indications		
– Power	green	green
Housing	12-pole, 18 mm wide, Polycarbonate/ABS flammability class V-0 per UL 94	
Mounting	snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting	
Connection	removable terminal blocks, reverse-polarity protected, screw connection, self-lifting	
Connection profile	≤ 1 x 2,5 mm ² , 2 x 1,5 mm ² or 2 x 1.0 mm ² with wire sleeves	
Degree of protection (IEC 60529/EN 60529)	IP20	
Operating temperature	-25...+60 °C	

