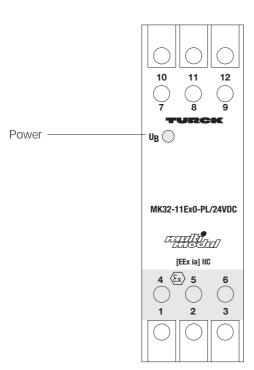


PT100 Measuring Amplifier MK32-11Ex0-PL/24VDC



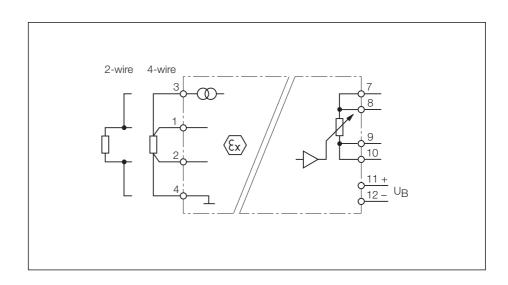
- Intrinsically safe input circuits [EEx ia] IIC with static wire-break and short-circuit monitoring
- Input for 2-wire or 4-wire PT100 RTDs (resistance temperature detectors)
- 2-wire or 4-wire outputs
- Operating range -200...+800 °C
- Output: resistance simulation
- Galvanic isolation between input circuit, output circuit and supply voltage

The PT100 isolating transducer, type MK32-11Ex0-PL/24VDC, detects temperature dependent changes of PT100 RTDs. These signals are isolated and then reproduced as electric resistance values.

The input of the measuring amplifier is suited for connection of 2-wire or 4-wire PT100 RTDs.

Standard 2-wire or 4-wire processors may be connected to the output of the device.

A green LED indicates that power is supplied to the device.



Analogue Data Transmitters



Type	MK32-11Ex0-PL/24VDC		
Ident-No.	75 090 20		
Supply Voltage U _B	1030 VDC		
Ripple W _{PP}	≤ 10 %		
Current consumption	$< 1.8 \text{ W at I}_a = 20 \text{ mA}$		
Galvanic isolation	between input circuit, output circuit		
	and supply voltage for 250 V _{rms} ,		
	test voltage 2.5 kV _{rms}		
Input Circuits	intrinsically safe according to EN 50020		
Version	PT100 RTD (IEC 751), 2- and 4-wire versions		
Input line resistance	< 200 Ω/cable		
Sensor current	approx. 250 μA		
Output Circuits			
Reproduction of resistance value	max. 5 V/4 mA		
Ex-Approvals acc. to Certificate of Conformity	pending		
Input circuit			
 Maximum values 			
No-load current U ₀	-		
Short-circuit current I ₀	-		
 Max.external inductances/capacitances 	-		
[EEx ia] IIC			
Transfer Characteristics			
Operating range	-200+800 °C		
Compensation error	≤ 0.1 % of measuring scale (ref. to -50600 °C)		
Load impedance	≤ 0.005 % of final value		
Effect of load impedance	≤ 0.005 % of final value		
Ambient temperature sensitivity	≤ 0.005 %/K of final value		
Pulse rise time (10 %90 %)	<1s		
Release time (90 %10 %)	<1s		

LE	D Indic	ation
_	Power	"ON"

green

flammability class V-0 per UL 94 Mounting

snap-on clamps for top-hat rail (DIN 50022)

or srew terminals for panel mounting

Connection via flat terminals with self-lifting pressure plates Connection profile

 \leq 2 x 2.5 mm² or 2 x 1.5 mm²

with wire sleeves

Degree of protection (IEC 60529/EN 60529) IP20 Operating temperature -25...+60 °C

