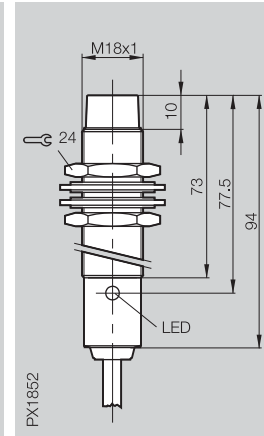
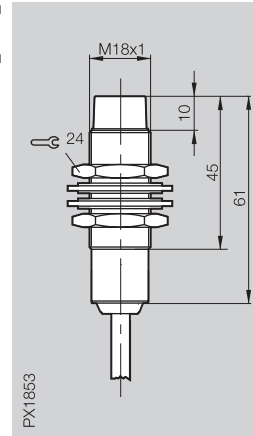


Remote – transmit temperature values

The Thermal-Remote Sensors are compatible with PT100 thermocouples for sensing temperature on moving components while they are being processed.

The thermocouple detects the temperature of the object and changes its resistance value, which is processed by the Transmitter. The digitized information is passed to the Output sensor. The latter converts the digital values into an analog signal (4...20 mA) and provides it to the external controller.

Housing size	M18x1	
Type	Transmitter ←.....→	Output sensor
Transmission distance	1...4 mm	
Installation type	non-flush	



Transmitter	RTT 1804-PT1B_ _-PU-05	Output sensor	RTE 1804E-PU-05
Assured transmission distance	1...4 mm		
Supply voltage U_B incl. ripple			24 V DC $\pm 5\%$
Output signal			4...20 mA
No-load supply current I_0 max.			≤ 150 mA
Short circuit protected			yes
Tightening torque	20 Nm		20 Nm
Radial offset	± 2.5 mm		
Rated insulation voltage U_i	75 V DC		
Load resistance R_L			$\leq 400 \Omega$
Measurement deviation			$\leq \pm 0.8\%$ of I_a max.
Delay time	0.5 s		
Temperature drift			$\leq \pm 0.04\%$ / °C
Response time			≤ 2 s
Ambient temperature range T_a	0...+60 °C		0...+60 °C
Function indicator			yes
Degree of protection per IEC 60529	IP 67		IP 67
Housing material	Nickel plated brass		Nickel plated brass
Material of sensing face	ABS/PBT		ABS/PBT
Connection type	5 m PUR cable		5 m PUR cable
No. of wires x cross-section	3x0.3 mm ²		3x0.3 mm ²

For your electrical planning, please ask for the user's guide!

Compatible PT100 thermocouples

As needed thermocouples having a temperature measurement range of 0...+100 °C, 0...+200 °C or 0...+300 °C can be used with the appropriate transmitter.

Transmitter

Ordering code	Temperature measurement range
RTT 1804-PT1B10-PU-05	0...+100 °C
RTT 1804-PT1B20-PU-05	0...+200 °C
RTT 1804-PT1B30-PU-05	0...+300 °C