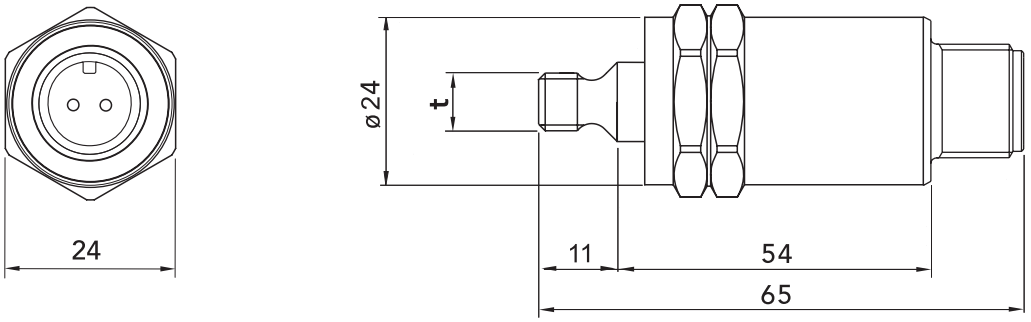
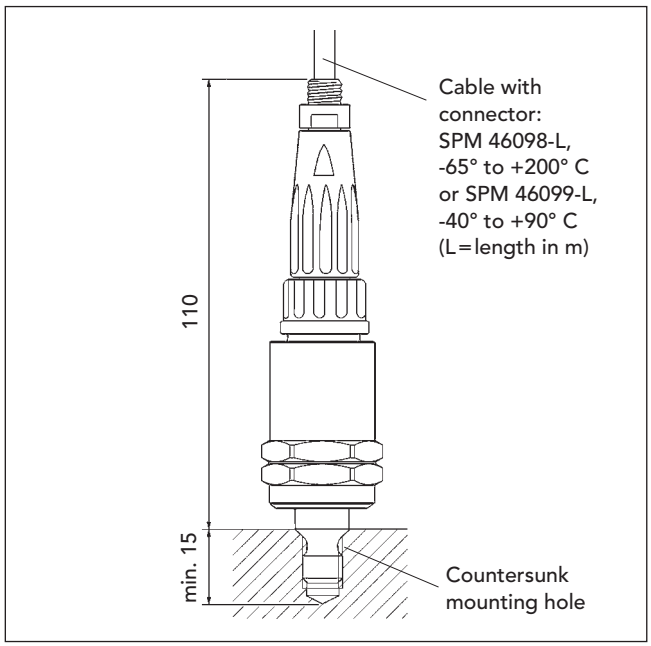
4-20 mA Temperature Transmitter TMM-12 / 13



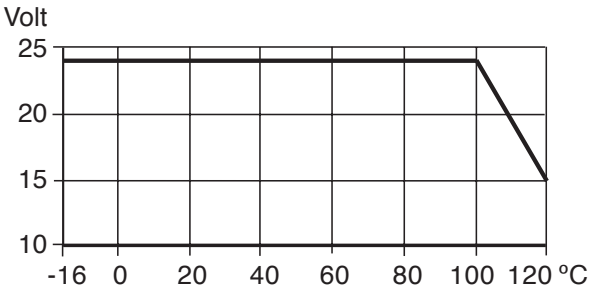
t = M8 (TMM-12)
UNC 5/16" (TMM-13)

TMM-12 and TMM-13 are temperature transmitters with a measuring range from –16° to +120° C and an analog output of 4 to 20 mA. The transmitters are mounted in countersunk mounting holes. TMM-12 has thread size M8 and TMM-13 has thread size UNC 5/16". The transmitters are connected via twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style. They use a power supply of 12 to 24 V DC (see derating curve).

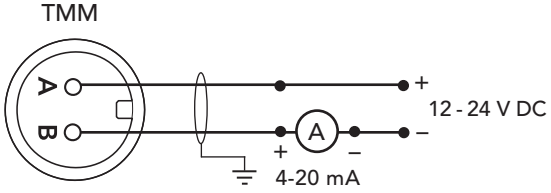
TMM-12 / 13 transmitters can be connected to the CMM System (DMM and VDM-14/15 measuring units) or to AMS measuring units in the CMS System for continuous machine condition monitoring. They can also be connected directly to the analog inputs on a PLC or similar.



Derating curve for power supply



Electrical connection



Technical data

Measuring range:	–16° to 120 °C (3° to 248° F)
Output:	4 to 20 mA
Inaccuracy:	typical 1° C, max. 3° C at 25° C
Linearity deviation:	2% +0.5 °C
Long time stability:	0.4 °C
Temperature range:	–30° to 125° C (-22° to 257° F)
Power supply:	12 to 24 V DC, see derating curve
Loop resistance$_{max}$:	50 (U-7) Ω for U=12 to 24 V DC e.g. 400 Ω at 15 V
Housing:	stainless acid proof steel, Sandvik Grade:1802, EN:1.4523, Viton sealing, IP67
Mounting hole:	M8 (TMM-12), UNC 5/16" (TMM-13), 90° countersunk
Torque:	max. 15 Nm
Connector type:	SPM 15168 or compatible with 2 pin MIL-C-5015 style

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