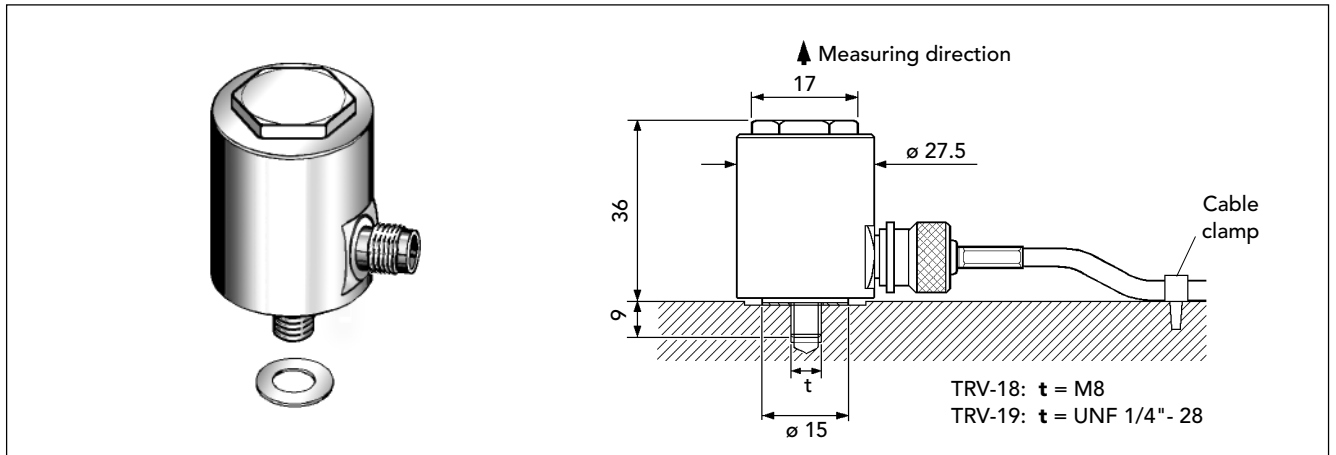


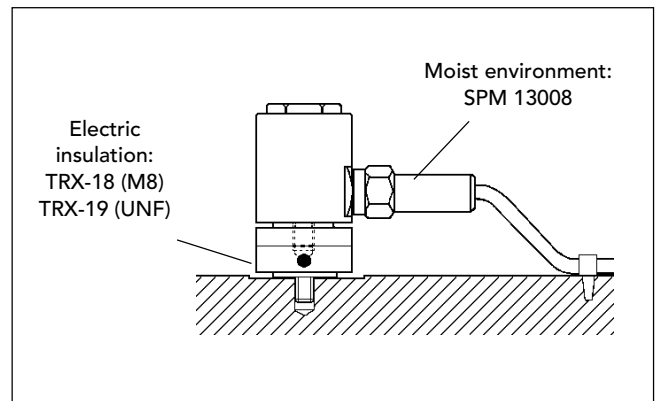
Vibration Transducer TRV-18 / 19



The transducers TRV-18 and TRV-19 are piezo-electric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. They are used in permanent installations with the CMM System and MG-4. The cable length between transducer and measuring unit is max. 50m (165 ft).

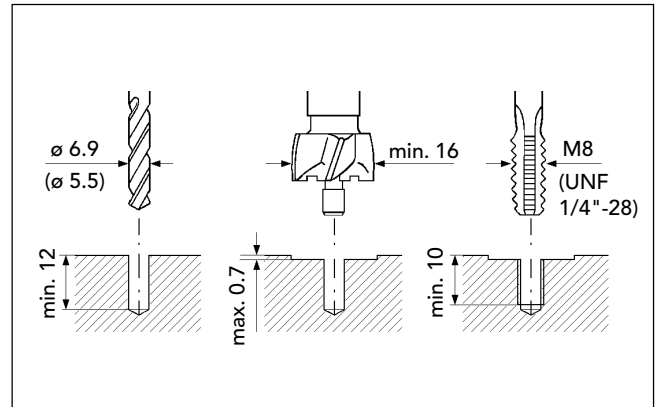
The transducer is mounted against a smooth, flat surface on the machine. TRV-18 has thread size M8 and TRV-19 has UNF 1/4"-28. The transducers are delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. The coaxial cable (SPM 90005-L or 90267-L) with TNC connector must be secured with a clamp close to the transducer.

In moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion. For electric insulation, use insulation foot TRX-18 / TRX-19.



Technical data

Nominal sensitivity, main axis:	1.2 mV/m/s ² *
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s ² /μ strain
Linear frequency range:	3 to 1000 Hz
Max. peak acceleration:	600 m/s ²
Temperature range:	-20° C to +125° C (-4° F to +260° F)
Typical temperature drift:	0.25% / °C
Housing, base:	Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
Design:	Sealed
Connector tightness:	IP65 with TNC connector IP67 with conn. SPM13008
Weight:	135 grams (5 oz)
Connector type:	TNC
Torque limit:	10 Nm (7.4 lbf/ft)
Power requirement:	12 to 24 V DC
Constant current:	2 to 5 mA
Settling time:	3 sec
Bias point:	5 to 11 V (typ 7 V)



To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF 1/4"-28. Torque and unscrew the transducer with a torque wrench and a 17 mm socket (SPM 81086).

Mounting tools

81027	Holder for counterbore
81057	Counterbore, diameter 20 mm
81030	Pilot for UNF 1/4"-28 (TRV-19)
81031	Pilot for M8 (TRV-18)

* Individual value given on the calibration chart.

