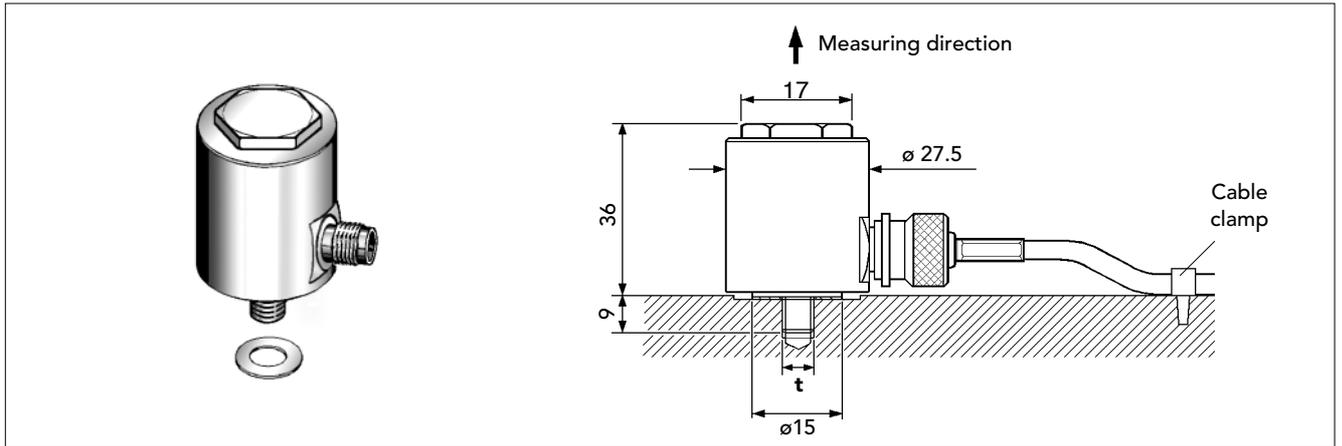


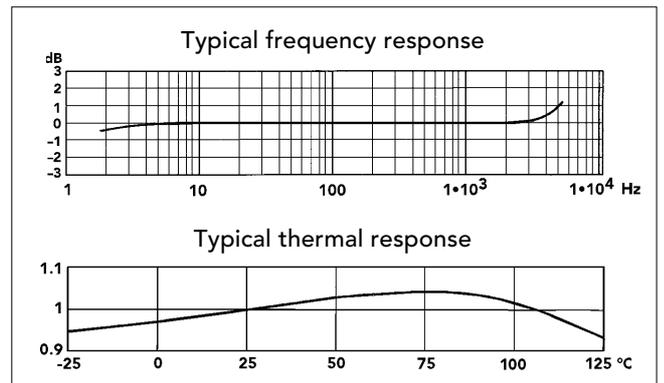
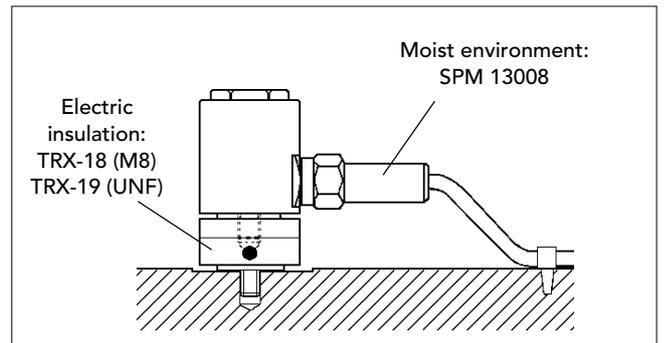
# Vibration Transducer TRV-20/21



The transducers TRV-20 and TRV-21 are piezo-electric accelerometers of compression type with built-in pre-amplifier, designed for vibration monitoring of industrial machinery. The transducers are used in permanent installations with the CMS System (measuring unit VCM) and with the hand-held instrument Leonova. The cable length between the transducer and the measuring unit is max. 50 m (165 ft).

The transducer is mounted against a smooth, flat surface on the machine. TRV-20 has thread size M8 and TRV-21 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.

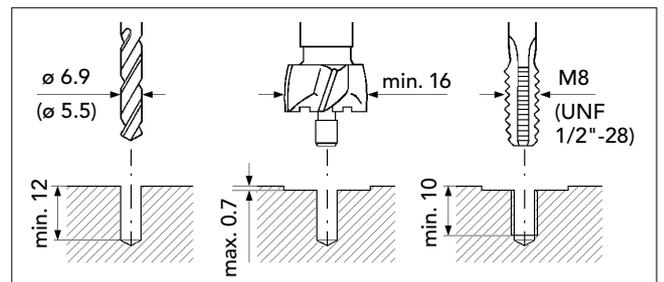
In moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion. For electric insulation, use insulated installation foot TRX-18/19.



## Technical data

Nominal sensitivity, main axis:	4.0 mV/m/s <sup>2</sup> *
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s <sup>2</sup> /μ strain
Linear frequency range:	2 to 5000 Hz
Max. peak acceleration:	600 m/s <sup>2</sup>
Temperature range:	-20° C to +125° C (-4° F to +260° F)
Power requirements:	12–24 V, 2–5 mA
Casing:	Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
Design:	Sealed
Connector tightness	IP65 with TNC connector IP 67 with conn. SPM13008
Weight:	135 grams (5 oz)
Connector type:	TNC
Torque limit:	10 Nm (7.4 lbf · ft)
Bias point:	6 to 12 V (typ 8 V)

\* Individual value given on the calibration chart.



## Mounting tools

- 81027 Holder for counterbore
- 81057 Counterbore, diameter 20 mm
- 81030 Pilot for UNF 1/4" (TRV-21)
- 81031 Pilot for M8 (TRV-20)

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

