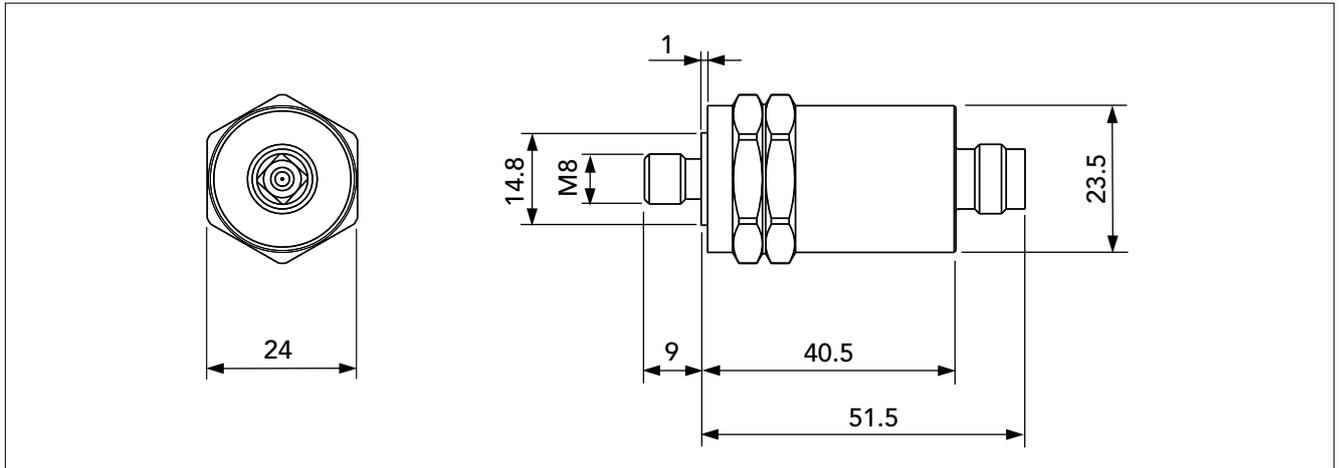


# Vibration Transducer SLD121 A



The vibration transducer SLD121 A is a piezo-electric accelerometer of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. Standard thread size is M8. The transducer is connected via a coaxial cable (SPM 90005-L or 90267-L) with SMB connector.

## Technical data

Nominal sensitivity, main axis: 1.2 mV/m/s<sup>2</sup> \* = 12 mV/g

Transverse sensitivity: max. 10%

Typical base strain sensitivity: 0.01 m/s<sup>2</sup>/m strain

Linear frequency range: 2 to 1000 Hz (±1 dB)

Max. peak acceleration: 600 m/s<sup>2</sup> = 60 g

Settling time: 3 sec

Bias point: 6 to 9 V (typical 8 V)

Temperature range: -40° C to +125° C  
(-40° F to 260° F)

Power requirements: 12 to 24 V, 2 to 5 mA

Casing: Stainless acid proof steel

Sealing: IP 67 together with connector SPM 15388, 14990 or 15164

Isolation: Case isolated, > 1 Mohm

Torque limit: 10 Nm (7.4 lbf·ft)

Weight: 110 grams (4 oz)

Connector type: SMB

\* Individual value given on the calibration chart.

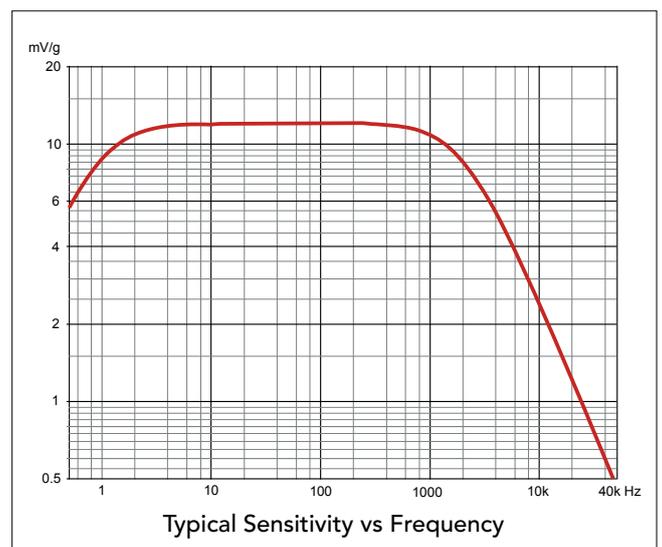
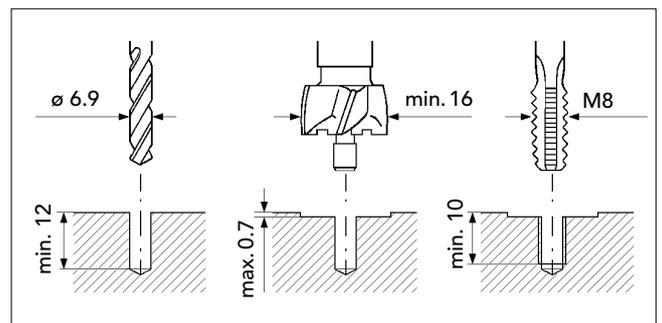
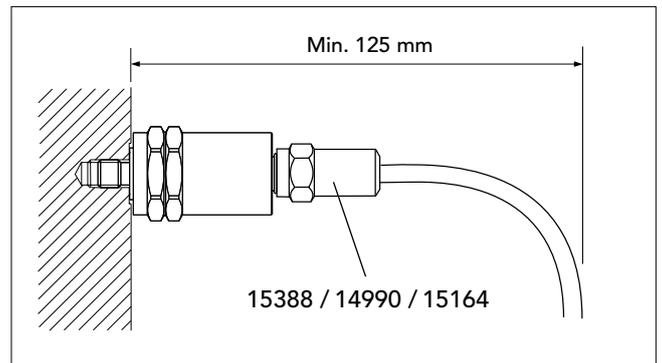
## Mounting tools

81027 Holder for counterbore

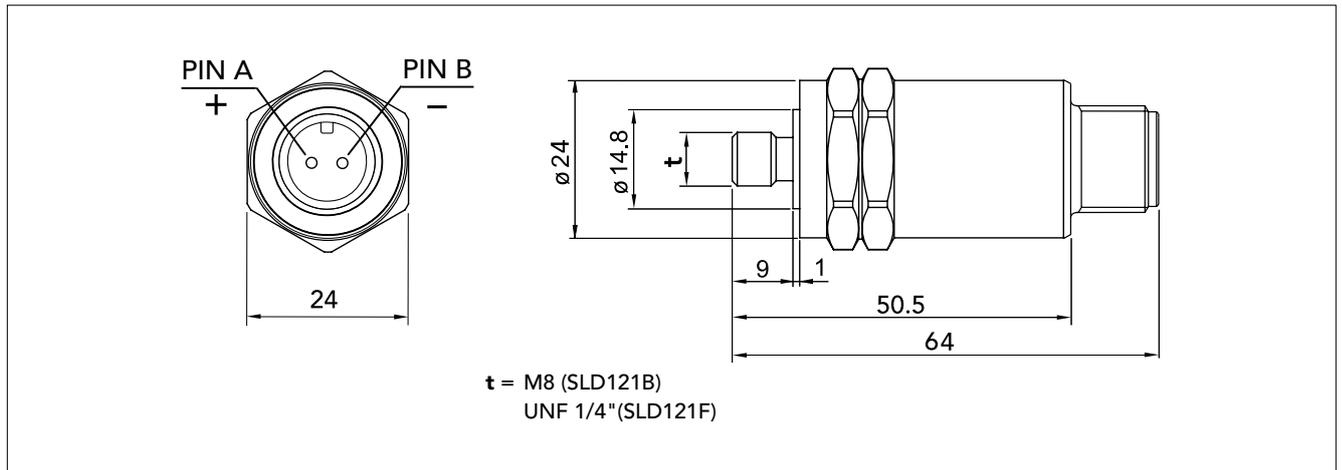
81057 Counterbore, diameter 20 mm

81031 Pilot for M8

To drill the mounting hole, use drill bit 6.9 mm. Torque the transducer with a 24 mm torque wrench.



# Vibration Transducer SLD121B /SLD121F



The vibration transducer SLD121 B and SLD121F are piezo-electric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD121B has thread size M8 and SLD121F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

## Technical data

Nominal sensitivity, main axis: 1.2 mV/m/s<sup>2</sup> \* =12 mV/g

Transverse sensitivity: max. 10%

Typical base strain sensitivity: 0.01 m/s<sup>2</sup>/μ strain

Linear frequency range: 2 to 1000 Hz (±1 dB)

Max. peak acceleration: 600 m/s<sup>2</sup> = 60 g

Settling time: 3 sec

Bias point: 6 to 9 V (typical 8 V)

Temperature range: -40° C to +125° C  
(-40° F to 260° F)

Power requirements: 12 to 24 V / 2 to 5 mA

Casing: Stainless acid proof steel

Sealing: IP 67 together with appropriate connector

Isolation: Case isolated, > 1 Mohm

Torque limit: 10 Nm (7.4 lbf · ft)

Weight: 110 grams (4 oz)

Connector type: Compatible with 2 pin MIL-C-5015 style

\* Individual value given on the calibration chart.

## Mounting tools

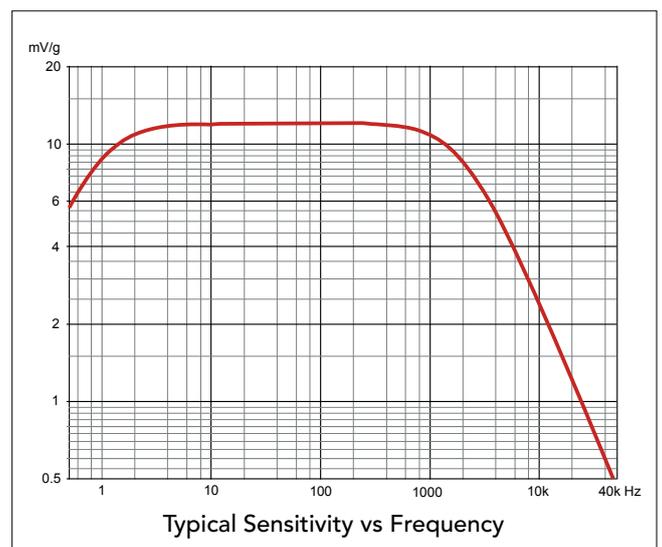
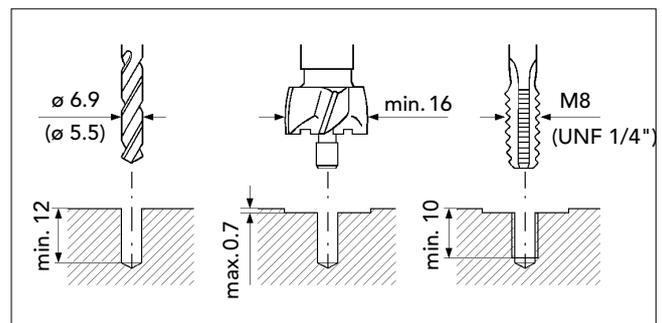
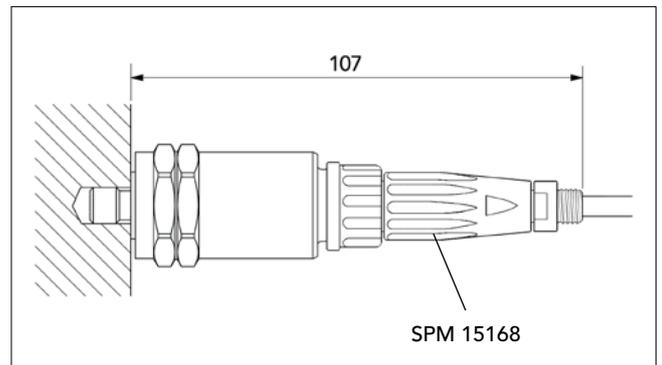
81027 Holder for counterbore

81030 Pilot for UNF 1/4" (SLD121F)

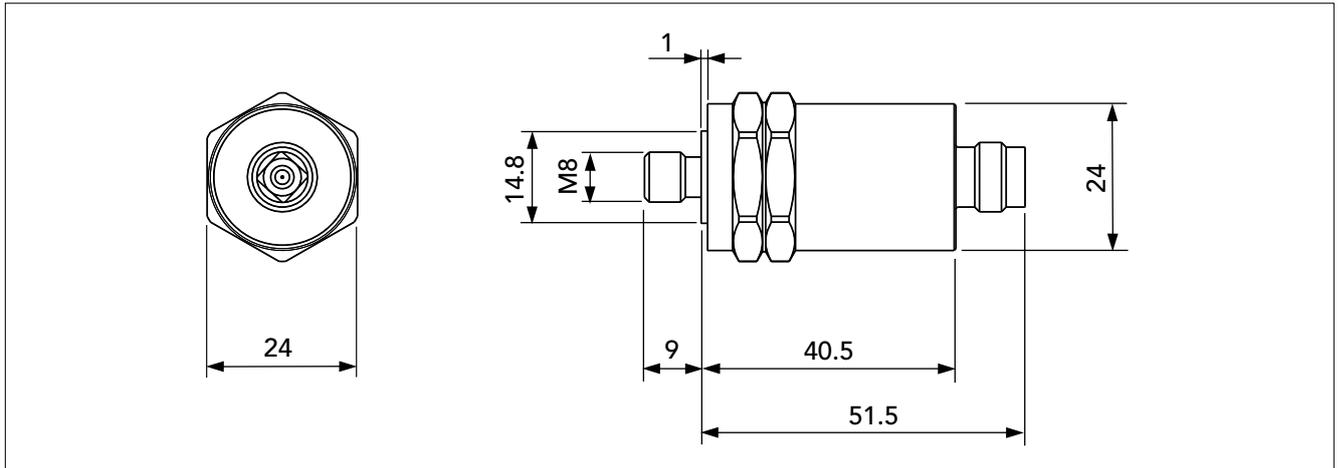
81031 Pilot for M8 (SLD121B)

81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm (5.5 for UNF 1/4"). Torque the transducer with a 24 mm torque wrench.



# Vibration Transducer SLD122 A



The vibration transducer SLD122A is a piezo-electric accelerometer of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. Standard thread size is M8. The transducer is connected via a coaxial cable (SPM 90005-L or 90267-L) with SMB connector.

## Technical data

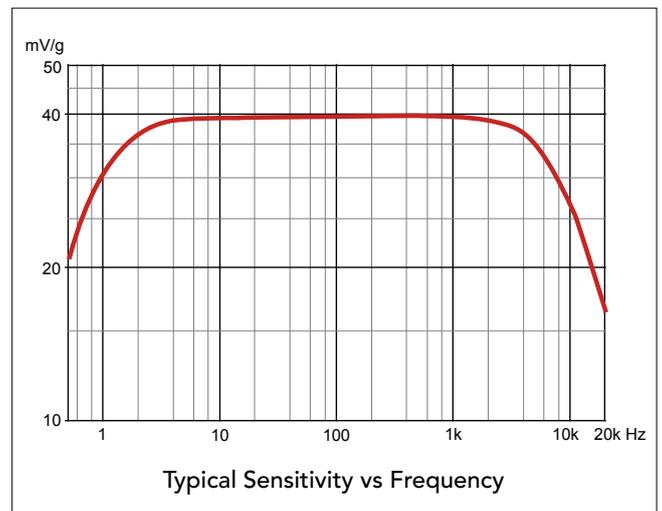
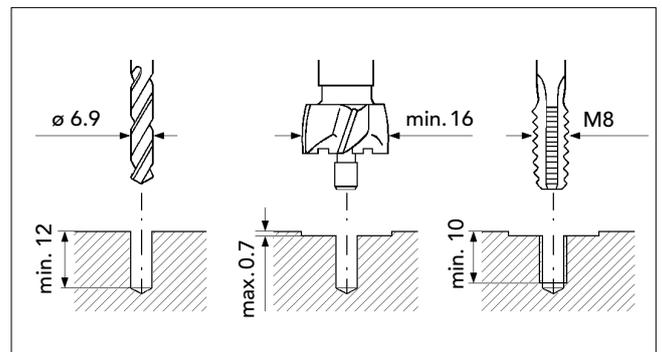
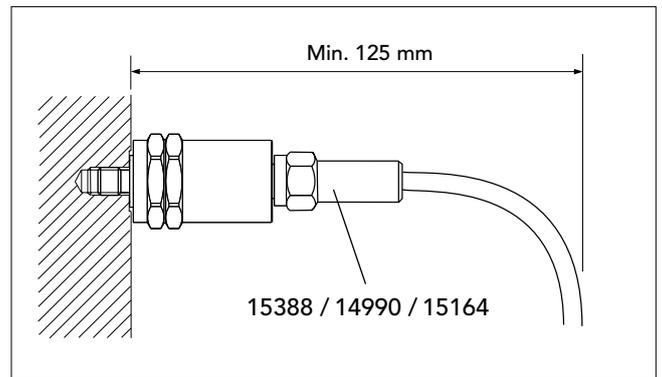
Nominal sensitivity, main axis:	4 mV/m/s <sup>2</sup> * = 40 mV/g
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s <sup>2</sup> /μ strain
Linear frequency range:	2 to 5000 Hz (± 1 dB)
Max. peak acceleration:	600 m/s <sup>2</sup> = 60 g
Settling time:	3 sec
Bias point:	6 to 9 V (typical 8) V
Temperature range:	-40° C to +125° C (-40° F to 260° F)
Power requirements:	12 to 24 V, 2 to 5 mA
Casing:	Stainless acid proof steel
Sealing:	IP 67 together with connector SPM 15388, 14990 or 15164
Isolation:	Case isolated, > 1 Mohm
Torque limit:	10 Nm (7.4 lbf·ft)
Weight:	110 grams (4 oz)
Connector type:	SMB

\* Individual value given on the calibration chart.

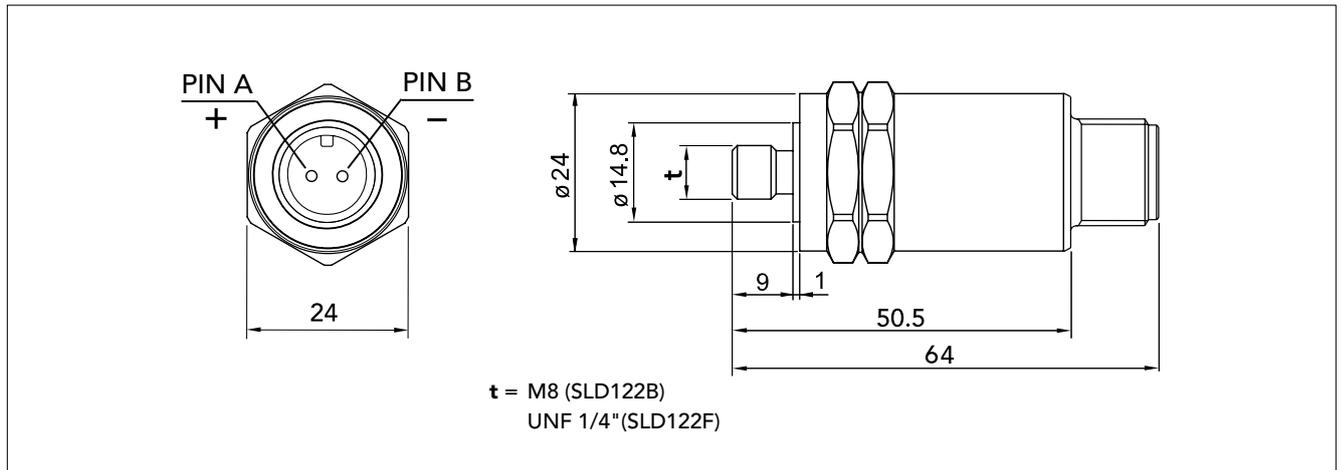
## Mounting tools

- 81027 Holder for counterbore
- 81057 Counterbore, diameter 20 mm
- 81031 Pilot for M8

To drill the mounting hole, use drill bit 6.9 mm. Torque the transducer with a 24 mm torque wrench.



# Vibration Transducer SLD122B / SLD122F



The vibration transducer SLD122B and SLD122F are piezoelectric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD122B has thread size M8 and SLD122F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

## Technical data

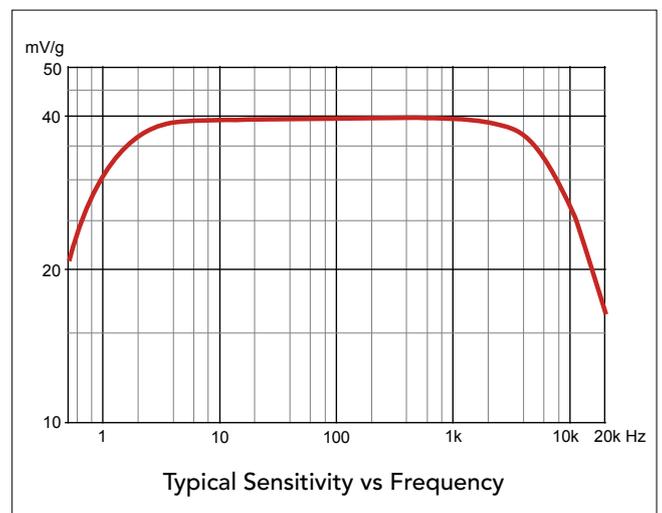
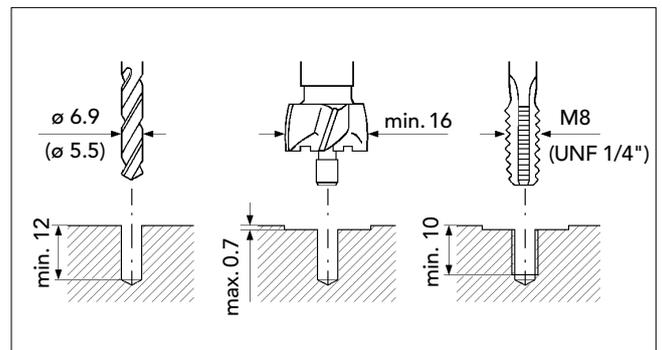
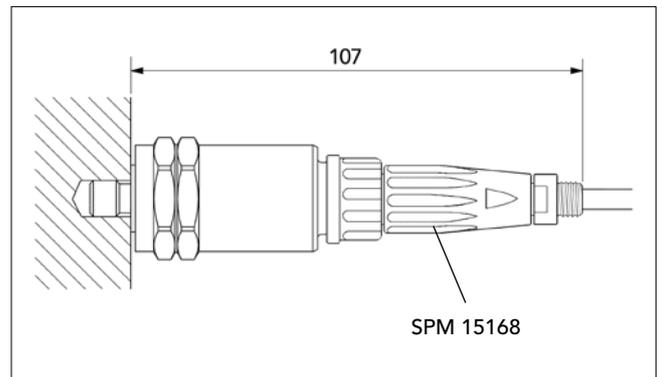
Nominal sensitivity, main axis:	4 mV/m/s <sup>2</sup> * = 40 mV/g
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s <sup>2</sup> /μ strain
Linear frequency range:	2 to 5000 Hz (± 1 dB)
Max. peak acceleration:	600 m/s <sup>2</sup> = 60 g
Settling time:	3 sec
Bias point:	6 to 9 V (typical 8 V)
Temperature range:	-40° C to +125° C (-40° F to 260° F)
Power requirements:	12 to 24 V, 2 to 5 mA
Casing:	Stainless acid proof steel
Sealing:	IP 67 together with appropriate connector
Isolation:	Case isolated, > 1 Mohm
Torque limit:	10 Nm (7.4 lbf·ft)
Weight:	110 grams (4 oz)
Connector type:	Compatible with 2 pin MIL-C-5015 style

\* Individual value given on the calibration chart.

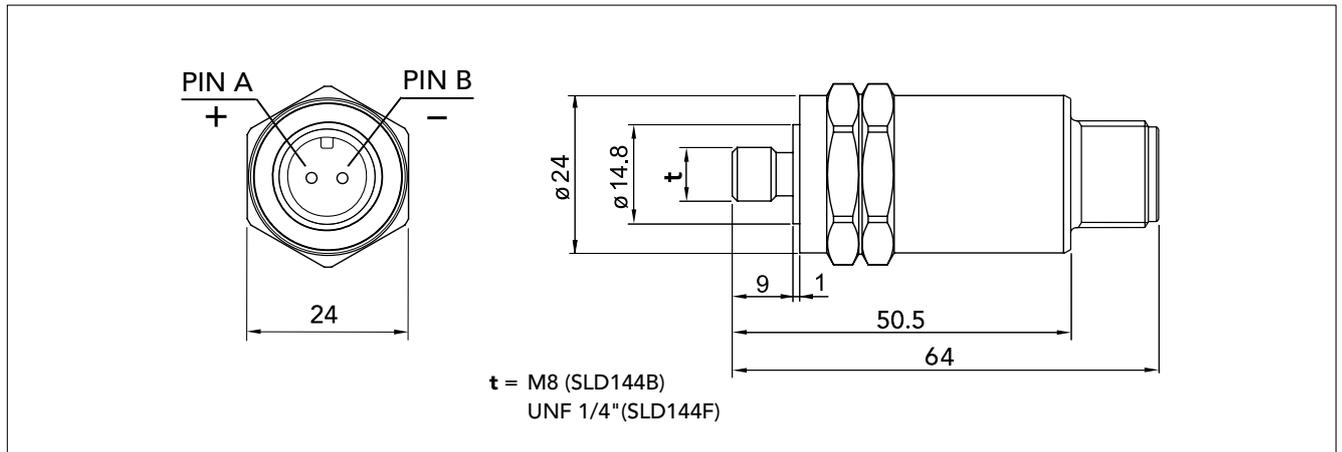
## Mounting tools

- 81027 Holder for counterbore
- 81030 Pilot for UNF 1/4" (SLD122F)
- 81031 Pilot for M8 (SLD122B)
- 81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm (5.5 for UNF 1/4"). Torque the transducer with a 24 mm torque wrench.



# Vibration Transducer SLD144B / SLD144F



The vibration transducer SLD144B and SLD144F are piezoelectric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD144B has thread size M8 and SLD144F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

## Technical data

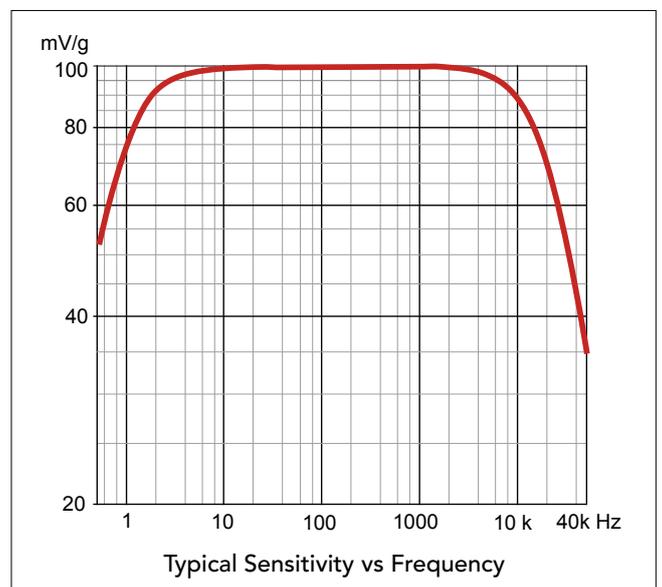
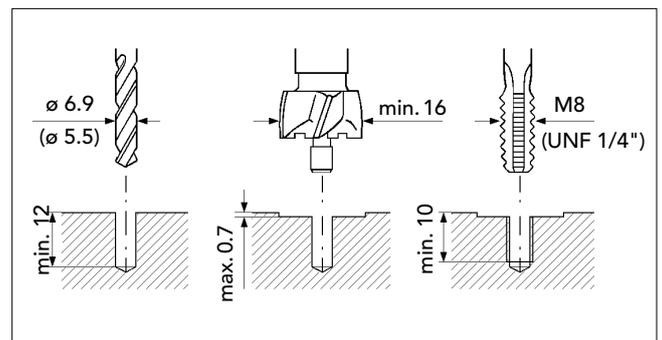
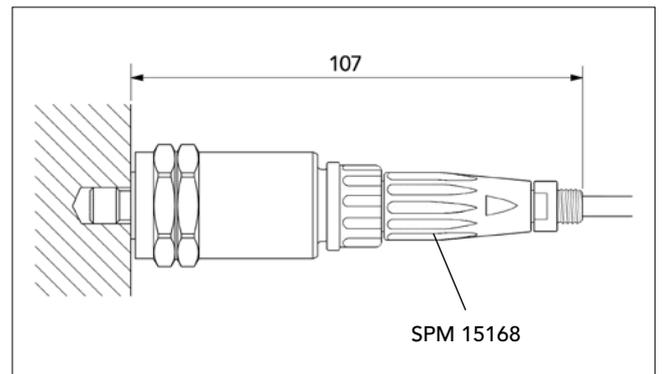
Nominal sensitivity, main axis:	10 mV/m/s <sup>2</sup> * =100 mV/g
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s <sup>2</sup> /μ strain
Linear frequency range:	2 Hz - 10 kHz (±1 dB) (-3 dB at 0.7 Hz typ)
Max. peak acceleration:	600 m/s <sup>2</sup> = 60 g
Settling time:	3 sec
Bias point:	11 to 13 V (typical 12 V)
Temperature range:	-40° C to +125° C (-40° F to 260° F)
Power requirements:	24 V / 2 to 5 mA
Casing:	Stainless acid proof steel
Sealing:	IP 67 together with appropriate connector
Isolation:	Case isolated, > 1 Mohm
Torque limit:	10 Nm (7.4 lbf · ft)
Weight:	110 grams (4 oz)
Connector type:	Compatible with 2 pin MIL-C-5015 style

\* Individual value given on the calibration chart.

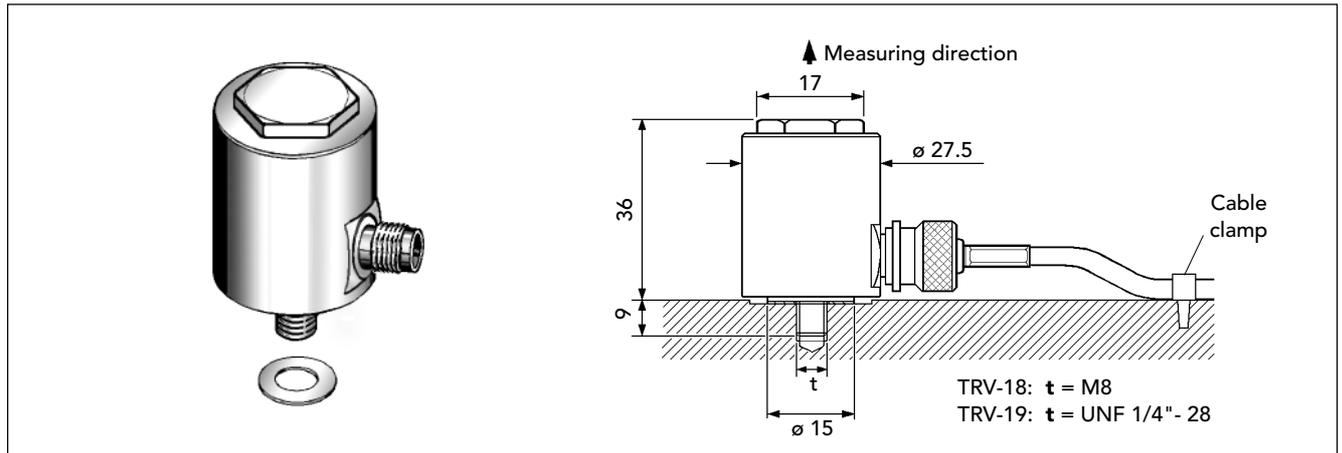
## Mounting tools

- 81027 Holder for counterbore
- 81030 Pilot for UNF 1/4" (SLD144F)
- 81031 Pilot for M8 (SLD144B)
- 81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF1/4". Torque the transducer with a 24 mm torque wrench.



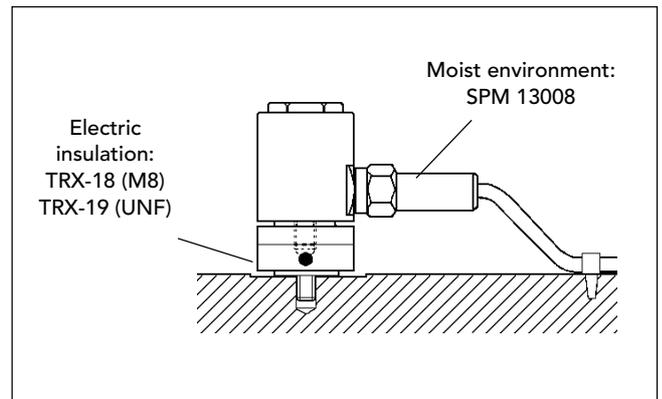
# Vibration Transducer TRV-18 / 19



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).

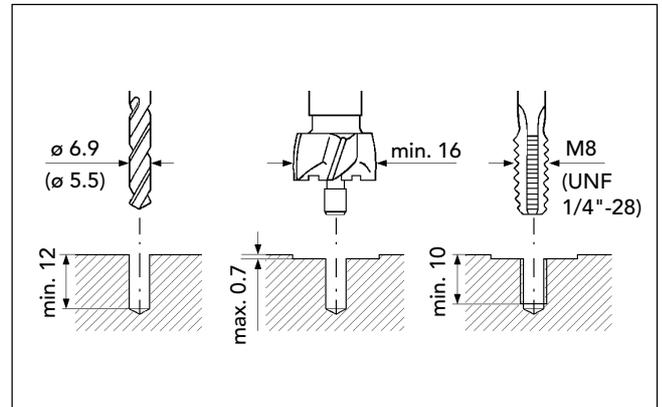
The transducer is mounted against a smooth, flat surface on the machine. TRV-18 has thread size M8 and TRV-19 has UNF 1/4"-28. The transducers are delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. The coaxial cable (SPM 90005-L or 90267-L) with TNC 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 <sup>2</sup> *
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s <sup>2</sup> /∞ strain
Linear frequency range:	3 to 1000 Hz
Max. peak acceleration:	600 m/s <sup>2</sup>
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).

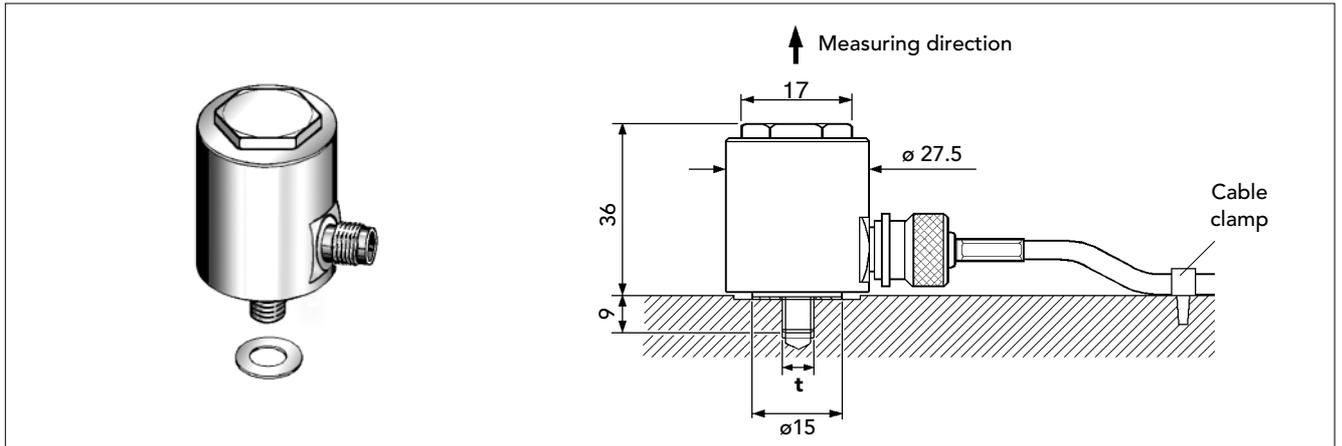
## Mounting tools

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.



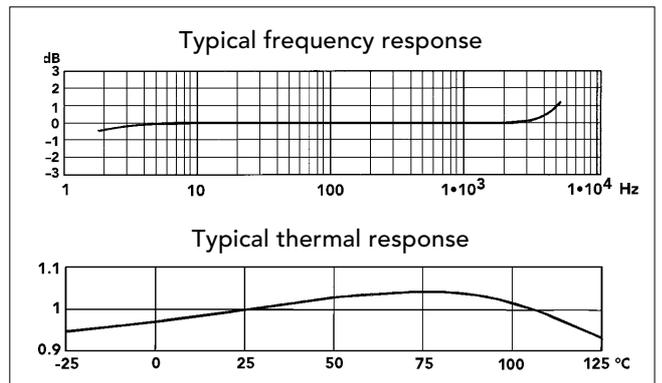
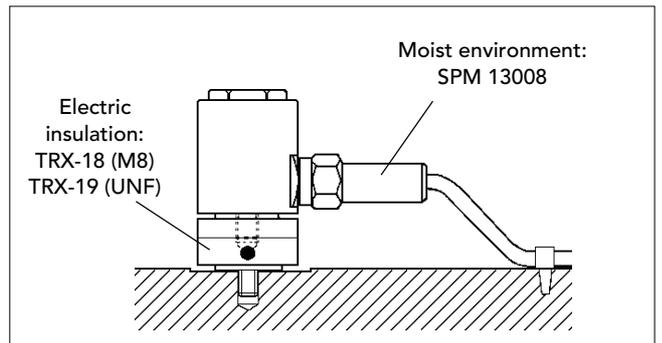
# Vibration Transducer TRV-20/21



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.

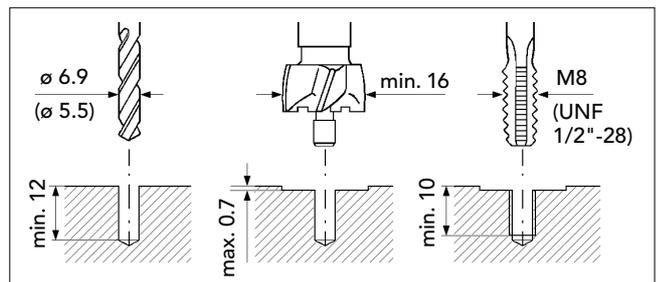
In moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion. For electric insulation, use insulated installation foot TRX-18/19.



## 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.



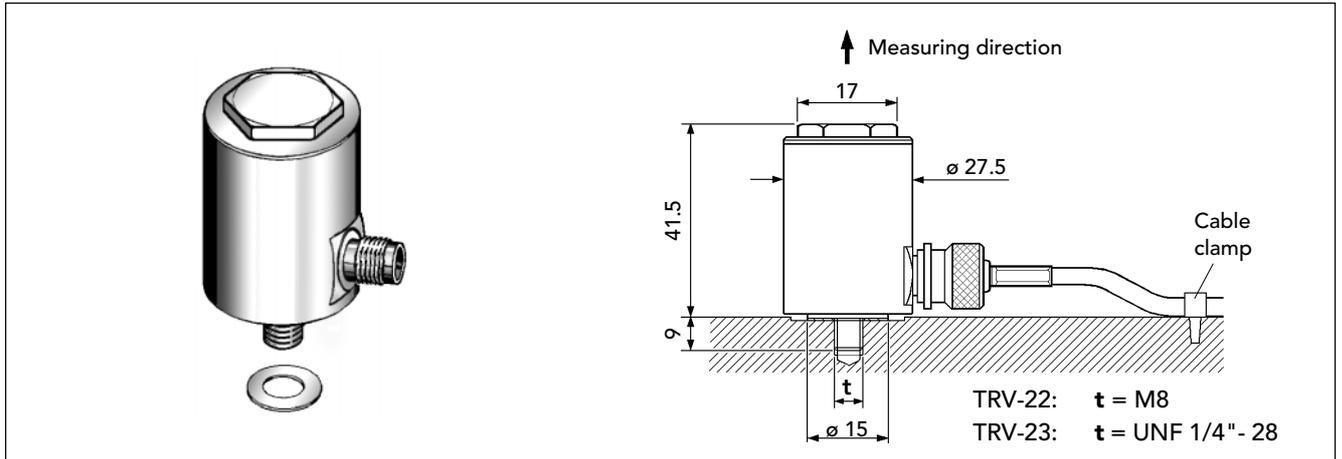
## Mounting tools

- 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).



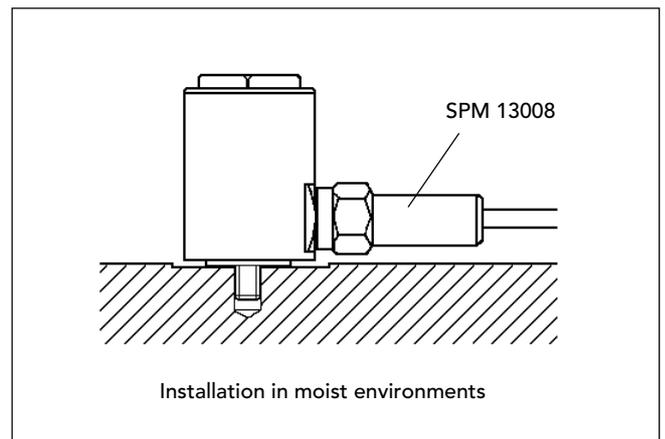
# Vibration Transducer TRV-22 / 23



The transducers TRV-22 and TRV-23 are piezo-electric accelerometers of compression type, designed for vibration monitoring of industrial machinery. They can be used together with handheld instruments or in permanent installations. Max. cable length between transducer and measuring unit is 10 m (33 ft).

The transducer is mounted in a threaded hole on a smooth, flat surface on the machine. It is delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. Fix low noise coaxial cable (SPM 90176-L or 90292-L) with TNC connector with a clamp close to the transducer.

For installations in moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion.



## Technical data

Nominal sensitivity, main axis: 10 pC/m/s<sup>2</sup> (7-12 pC/m/s<sup>2</sup>) \*

Transverse sensitivity: max. 10%

Typical base strain sensitivity: 0.01 m/s<sup>2</sup>/∞ strain

Linear frequency range: 0 to 5000 Hz

Max. peak acceleration: 600 m/s<sup>2</sup>

Temperature range: -30°C to +150°C  
(-22°F to +302°F)

Typical temperature drift: 0.25% / °C

Housing, base: Stainless acid proof steel,  
Sandvik Grade:1802,  
EN:1.4523

Design: Sealed

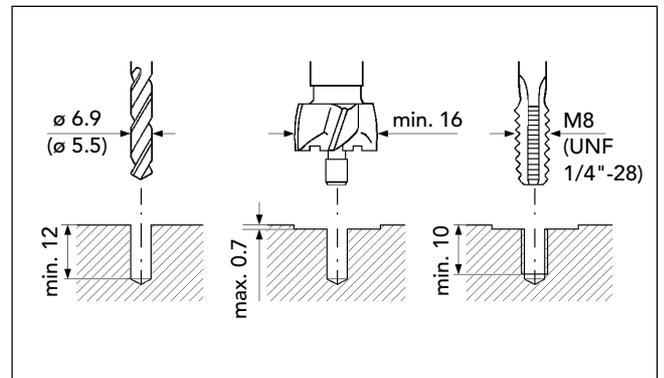
Connector tightness: IP65 with TNC connector  
IP67 with conn. SPM13008

Weight: 171 grams (6 oz)

Connector type: TNC

Torque limit: 10 Nm (7.4 lbf/ ft)

\* Individual value given on the calibration chart.



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

## Part Numbers

TRV-22	Vibration transducer, M8
TRV-23	Vibration transducer, UNF 1/4"-28
13008	Sealing TNC cable plug
81027	Holder for counterbore
81057	Counterbore, diam. 20 mm
81030	Pilot for UNF 1/4" (TRV-23)
81031	Pilot for M8 (TRV-22)

