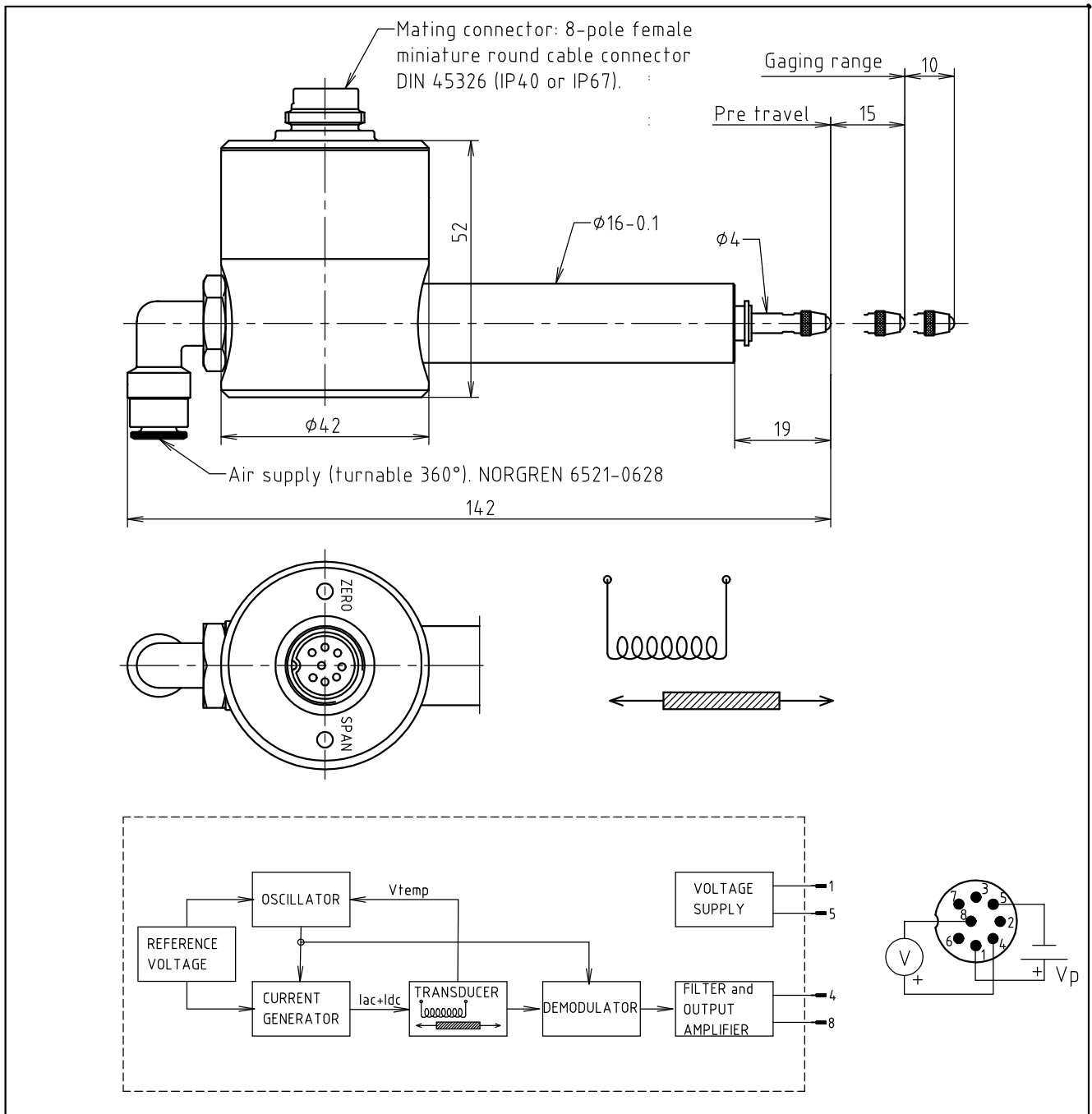


DISPLACEMENT TRANSDUCER TYPE XLW 16/25 TACE (with electronics) Pneumatically-actuated



DESCRIPTION

The XLW transducer is based on a concept where the sensing element consists of only one coil. Special winding technique has made it possible to obtain excellent linearity. The grinded teflon bearing in the honed stainless steel bore liner gives excellent wear resistance (10^8 movements). The core is pneumatically driven and retracted by a spring. Changing the air pressure applied can vary contact force. The transducer has built-in signal conditioner, which supplies the coil with both an AC-current and DC-current. The AC-voltage across the coil gives the position of the core and the DC-voltage gives the transducer temperature based on a fixed temperature coefficient for the coil resistance. The DC-voltage is used to temperature compensate the signal.

SPECIFICATIONS

Linear range	10 mm (15-25 mm)
Non-linearity	< ± 0.5 %
Pre-travel	15 mm (0-15 mm) can be used as measuring range with reduced linearity
Supply voltage	12 - 30 V _{DC} , min. 40 mA
Output signal	3 - 5 V _{DC} between 15 mm and 25 mm (linear range) >0 to 3 V _{DC} between 0 mm and 15 mm (pre-travel)
Gain adjustment	± 10 % of range
Zero adjustment	± 10 % of range
Temperature range	-20 °C to +75 °C
Temperature coefficient of gain and zero	< 0.03 %/°C
Rise time	< 100 ms
Transducer material - outer tube - bore liner - core	Stainless steel AISI 316 Stainless steel AISI 316 Stainless steel ferritic (SANDVIKEN 18.0.2)
Electrical connections	Connector DIN 45326 Terminal 1: 12-30 V _{DC} supply Terminal 5: 0 V _{DC} supply Terminal 4: 3-5 V _{DC} output Terminal 8: 0 V _{DC} output Terminal 2, 3, 6 and 7 are internally connected and should not be used
Protection class	IP65
Air supply	ø6 mm nylon tube
Air fitting	Norgren (6521-0628)
Gaging force	200 p/bar - 200 p (spring)