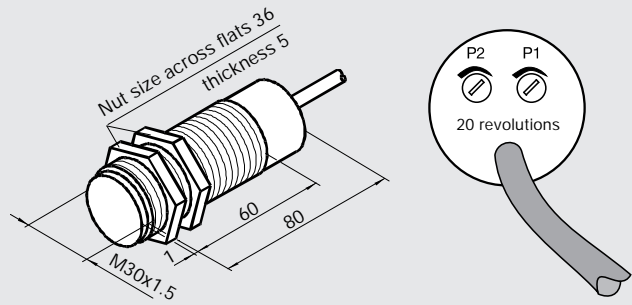


- Analogue output
- Adjustable measuring range
- Two potentiometers
- Compact construction



**Figure 1**  
Housing material PBT (Polybutylenterephthalate)  
Polyurethane foam

**The new generation :  
Compact ultrasonic sensors with ad-  
justable measurement range**

The extent of the measurement range is variable by the potentiometer P1 and the measurement range window is movable by potentiometer P2.

Example:

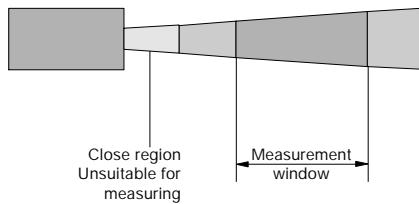
A particular application requires the selection of a measurement range of 200 to 550 mm at 4 mA ... 20 mA.

Step 1:

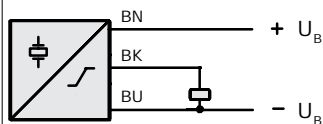
Using P1, the measurement window is set at the desired value of 550 to 200 mm = 350 mm

Step 2:

By means of P2, the measurement window is then moved to the required start point, i.e. 200 mm in this case.



**Standard symbol / Connection:  
Transceiver**



Date of issue 182.06.1996

<b>Detection range:</b>	<b>130 mm ... 750 mm</b> <b>Figure 1</b>
<b>Version:</b>	Transceiver with analogue output
<b>Ordering code:</b>	<b>UJ 750-30GK-I3</b>
<b>Nominal values:</b> Detection range Standard test plate (Min. flat surface) Close region (Unusable area) Measurement window range Sonic beam divergence angle Response time Repeatability Linearity Temperature drift	130 mm ... 750 mm 100 mm x 100 mm 0 mm ... 130 mm 130 mm ... 620 mm Approx. 5° at -3 dB ≤ 50 ms ± 1 % 3 % 0.2 % / K
<b>Electrical ratings:</b> Working voltage $U_B$ Ripple Quiescent current $J_B$ Analogue output Load resistance $R_L$	20 V DC ... 30 V DC $\pm 10 \%_{SS}, \dot{U}_B = 33 V$ $\leq 50 mA$ 4 mA ... 20 mA (K), Short circuit/Overload proof $\leq 500 \Omega$
<b>Mechanical data:</b> Working temperature Storage temperature Protection class to DIN 40 050 Permissible shock and vibration stresses <sup>5)</sup> Method of connection	273 Kelvin ... 323 Kelvin (0 °C ... +50 °C) 233 Kelvin ... 358 Kelvin (-40 °C ... +85 °C) IP 65 $b \leq 30 g, T \leq 11 ms$ $f \leq 55 Hz, a \leq 1 mm$ 2 m, PVC cable
5) To IEC 68-2-6 and IEC 68-2-27	