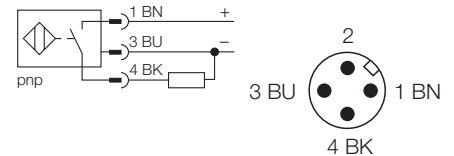


- threaded barrel, M18 x 1
- plastic, PBT-GF20-V0
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- predamping protection through self-compensation
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- connector, M12 x 1

<b>Type</b>	Ni12U-S18-AP6X-H1141
Ident-No.	1645600
<b>Rated operating distance Sn</b>	12 mm
Mounting condition	non-flush, partial embedding possible
Assured switching distance	≤ (0,81 x Sn) mm
Repetition accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
ambient temperature	3... 15 %
	-30 ... + 85 °C
<b>Operating voltage</b>	10... 30 V DC
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage dip at I <sub>e</sub>	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	□
Switching frequency	≤ 2 kHz
<b>Housing style</b>	threaded barrel; M18 x 1
Dimensions	52 mm
Housing material	plastic, PBT-GF20-V0
Material active area	plastic, PBT-GF20-V0
Housing nut tightening torque	2 Nm
Connection	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP68
<b>Switch state display</b>	LED yellow

**Wiring diagram**



**Function principle**

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.