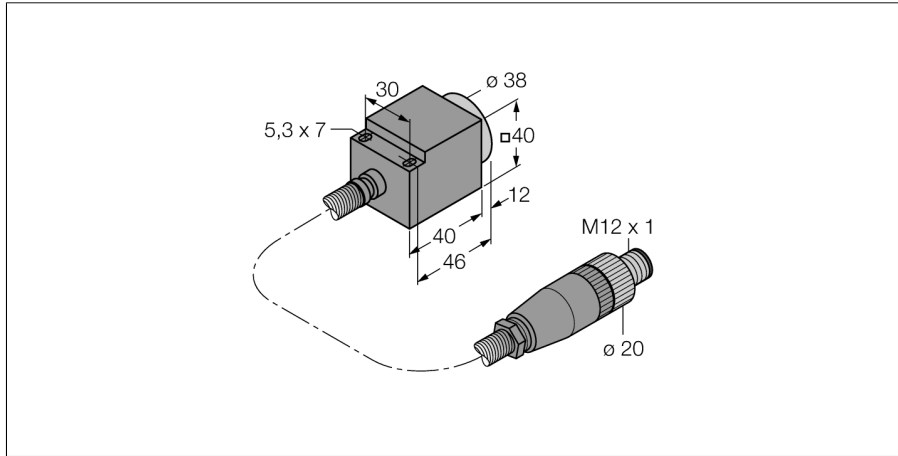
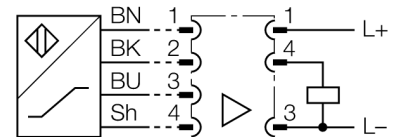


**Inductive sensor  
with extended temperature range  
NI25-CQ40/S1102 5M**



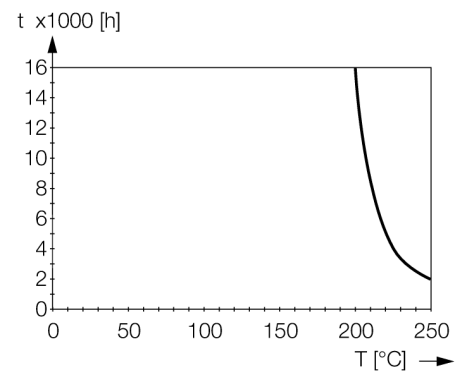
- Rectangular, height 40 mm
- Aluminium sensor housing
- Plastic, PEEK
- Aluminium cable sheath
- For temperatures up to +250°C
- To be used only with EM30-AP6X2-H1141/S1102 processing unit
- Switchpoint adjustable at the processing unit
- 3-wire connection to the processor

**Wiring diagram**



**Functional principle**

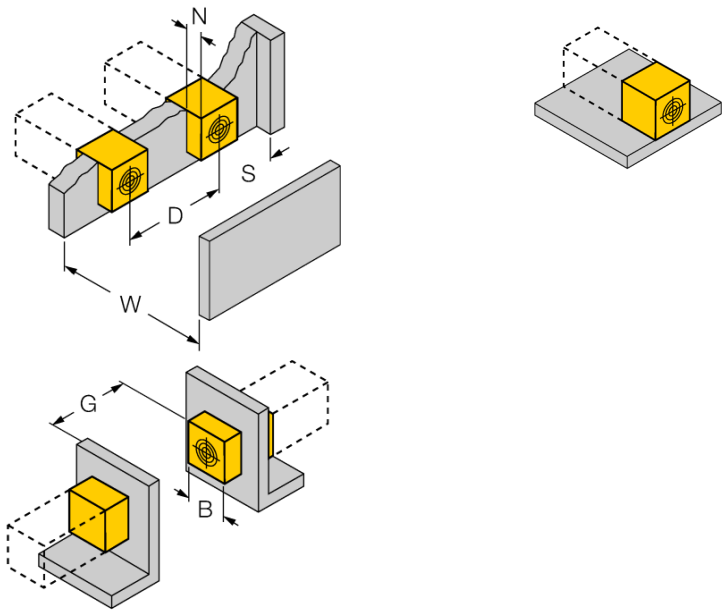
The sensors must be operated with a processor unit. When setting the switching distance at room temperature, the temperature sensitivity of the sensor must be taken into account. Special versions are available for ambient temperatures between -40°C and +250°C.



<b>Type code</b>	NI25-CQ40/S1102 5M
Ident no.	1602410
<b>Rated operating distance Sn</b>	25 mm
Mounting condition	non-flush, partially embeddable
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Hysteresis	3...15 %
Ambient temperature	0...+250 °C
<b>Design</b>	rectangular, CQ40
Dimensions	52 x 40 x 40 mm
Housing material	plastic, AL
Connection	male, M12 x 1
Cable quality	max. connector temperature -20...+70°C 3.7 mm, PTFE, FEP, 5 m Al cable sheath, Ø 8 mm
Cable cross section	3 x 0.34 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP60
MTTF	1685 years acc. to SN 29500 (Ed. 99) 40 °C

**Inductive sensor  
with extended temperature range  
NI25-CQ40/S1102 5M**

Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Distance A	1 x Sn
Distance C	2 x Sn
<b>Width of the active face B</b>	<b>40 mm</b>



1-side mounting on metal without modification of the switching distance

**Inductive sensor  
with extended temperature range  
NI25-CQ40/S1102 5M**

**Accessories**

Type code	Ident no.	Description	Dimension drawing
EM30-AP6X2-H1141/ S1102	1602411	processor for 250°C sensor; housing material: stainless steel 1.4571; protection degree: IP67; function display: LED/yellow; power ON indication: LED/green; ambient temperature: -20...+70°C; please order sensor separately	