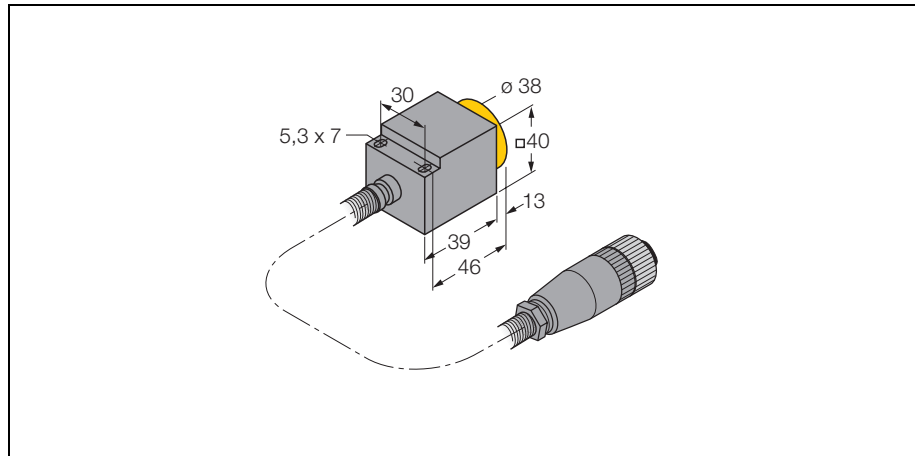
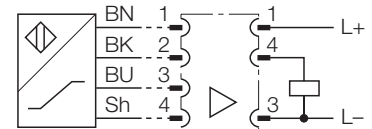


**inductive sensor
with extended temperature range
Ni25-CQ40/S1102 5m**



- rectangular, height 40 mm
- aluminium sensor housing
- plastic, PEEK
- cable aluminium protective tubing
- for temperatures up to +250°C
- function only with signal processor EM30-AP6X2-H1141/S1102
- switch point adjustment via processor
- 3-wire connection to the processor

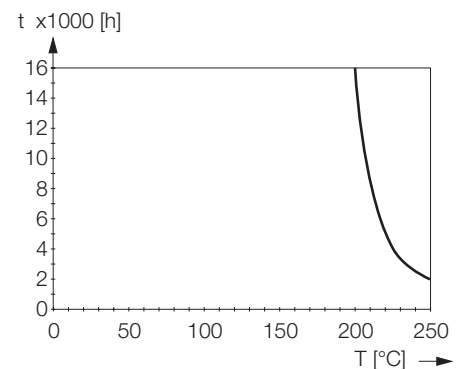
Wiring diagram



Function principle

The sensors must be operated in conjunction with a processor. The switching distance setting at room temperature must take the temperature sensitivity of the sensor into account. Special inductive sensors versions can be used at temperatures of -40°C up to +250°C

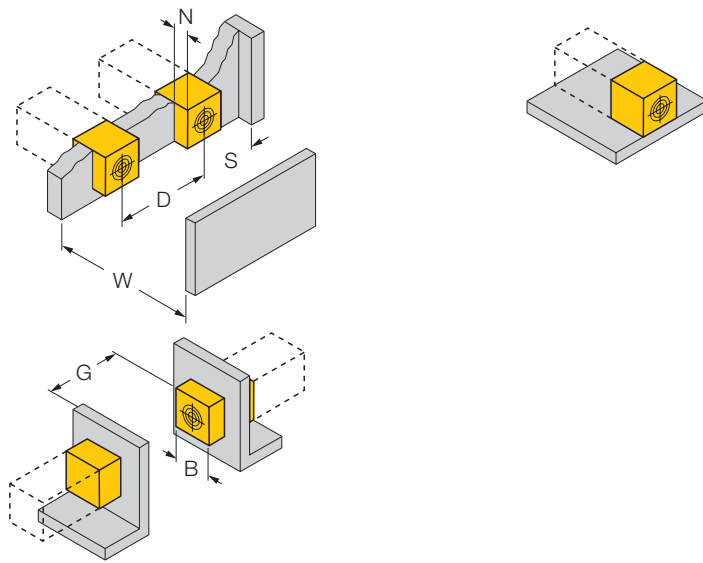
| | |
|------------------------------------|--|
| Type | Ni25-CQ40/S1102 5m |
| Ident-No. | 1602410 |
| Rated operating distance Sn | 25 mm |
| Mounting condition | non-flush, partial embedding possible |
| Assured switching distance | ≤ (0,81 x Sn) mm |
| Correction factors | St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3 |
| Repetition accuracy | ≤ 2 % |
| Hysteresis | 3... 15 % |
| ambient temperature | 0 ... + 250 °C |
| Housing style | rectangular; CQ40 |
| Dimensions | 52 x 40 x 40 mm |
| Housing material | plastic, AL |
| Material active area | plastic, PEEK |
| Connection | connector, M12 x 1 max. connector temperature -20...+70°C |
| cable quality | Ø 3.7, PTFE, Teflon FEP, 5 m Aluminium cable protection tubing Ø 8 mm |
| Cable cross section: | 3 x 0.34 mm ² |
| Litz | 19 x 0.16 mm ² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Protection degree | IP60 |



**inductive sensor
with extended temperature range
Ni25-CQ40/S1102 5m**

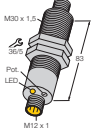
| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 3 x B |
| Distance W | 3 x Sn |
| Distance S | 1,5 x B |
| Distance G | 6 x Sn |
| Distance N | 2 x Sn |
| Distance A | 1 x Sn |
| Distance C | 2 x Sn |

Width of the active area B 40 mm



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. | Short text | 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 separately |  |