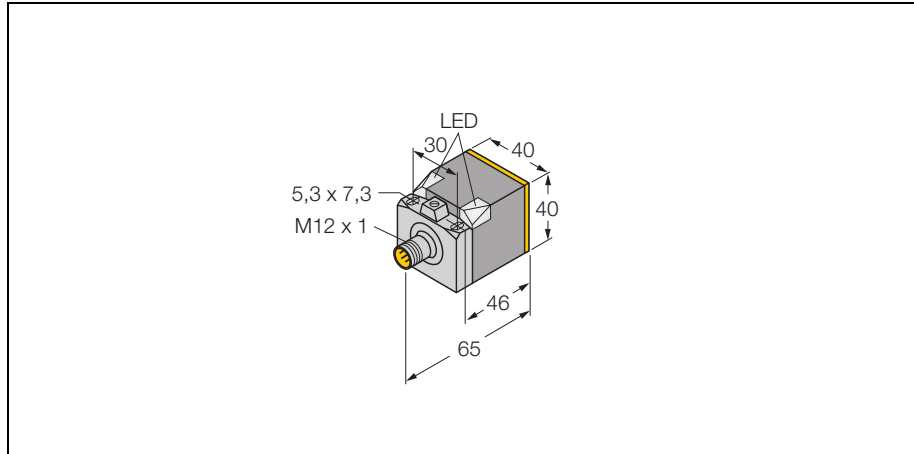
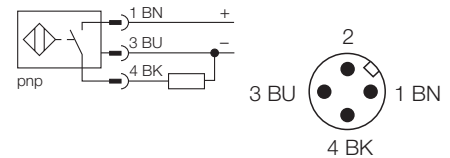


**Inductive sensor
with extended switching distance
Ni35-CK40-AP6X2-H1141**



- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum visibility of operating-voltage display and switching state in any installation position
- large detection range
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M12 x 1

Wiring diagram



Functional principle

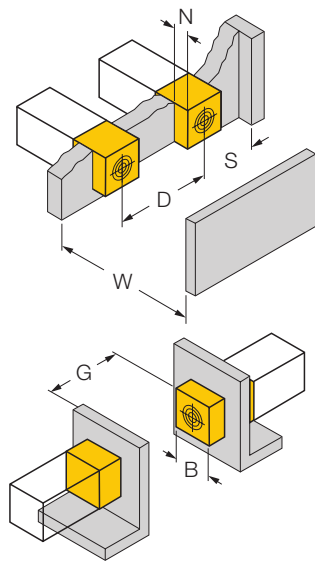
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

| | |
|---|--|
| Type | Ni35-CK40-AP6X2-H1141 |
| Ident-No. | 1626400 |
| Rated operating distance Sn | 35 mm |
| Mounting condition | non-flush |
| Assured sensing range | (0,81 x Sn) mm |
| Correction factors | St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3 |
| Repeatability | 2 % |
| Temperature drift | ± 10 % |
| Hysteresis | 3... 15 % |
| Ambient temperature | -25...+ 70 °C |
| Operating voltage | 10... 30VDC |
| Residual ripple | 10 % U _{SS} |
| DC rated operational current | 200 mA |
| No-load current I ₀ | 15 mA |
| Residual current | 0.1 mA |
| Rated insulation voltage | 0.5 kV |
| Short-circuit protection | yes / cyclic |
| Voltage drop at I _e | 1.8V |
| Wire breakage / Reverse polarity protection | yes / complete |
| Output function | 3-wire, normally open, pnp |
| Switching frequency | 0.15 kHz |
| Housing | rectangular, CK40 |
| Dimensions | 65 x 40 x 40 mm variable orientation of active face in 5 directions |
| Housing material | plastic, PBT-GF20-V0, black |
| Material active face | plastic, PA6-GF30-X, yellow |
| Connection | connectors, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Degree of protection | IP67 |
| Operating voltage display | 2 x LEDs green |
| Display switch state | 2 x LED yellow |
| Included in scope of supply | BS1-CK40 |

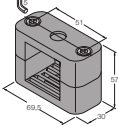
**Inductive sensor
with extended switching distance
Ni35-CK40-AP6X2-H1141**

| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 4,5 x B |
| Distance W | 3 x Sn |
| Distance S | 1,5 x B |
| Distance G | 6 x Sn |
| Distance N | 1 x B |

Width of the active face B 40 mm



**Inductive sensor
with extended switching distance
Ni35-CK40-AP6X2-H1141****Accessories**

| Type code | Ident-No. | Short text | Dimension drawing |
|-----------|-----------|---------------------------------------|---|
| BSS-CP40 | 6901318 | fixing clamp; material: polypropylene |  |