Inductive sensor
With increased switching distance
NI35U-CK40-ADZ30X2-B3131 W/BS4

Type designation
NI35U-CK40-ADZ30X2-B3131 W/BS4
Ident-No. 4280431
Ident-No (TUSA) M4280431

Rated switching distance Sn
- 35 mm
Mounting conditions
- Non-flush
- Secured operating distance
  ≤ (0,81 x Sn) mm
- Repeat accuracy
  ≤ 2 % of full scale
- Temperature drift
  ≤ ± 10 %
- Hysteresis
  3…15 %
- Ambient temperature
  -30…+85 °C

Operating voltage
- AC rated operational current
  ≤ 400 mA
- DC rated operational current
  ≤ 300 mA
- Frequency
  ≥ 50…≤ 60 Hz
- Isolation test voltage
  ≤ 1.5 kV
- Surge current
  ≤ 3 A (≤ 20 ms max. 5 Hz)
- Short-circuit protection
  yes/ Latching
- Output function
  2-wire, NO contact
- Wire breakage/Reverse polarity protection
  yes/ Complete
- Smallest operating current I_m
  ≥ 3 mA
- DC rated operational current
  ≤ 300 mA
- AC rated operational current
  ≤ 400 mA
- Residual current
  ≤ 1.7 mA
- Voltage drop at I_e
  ≤ 6 V
- Switching frequency
  0.01 kHz

Design
- Rectangular, CK40
- Dimensions
  65 x 40 x 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Plastic, PA6-GF30-X, yellow
- Connector housing
  Connector, 1/2"
- Metal, CuZn, nickel-plated
- Vibration resistance
  55 Hz (1 mm)
- Shock resistance
  30 g (11 ms)
- Protection class
  IP68
- MTTF
  874 years acc. to SN 29500 (Ed. 99) 40 °C

Power-on indication
- LED green
- LED yellow
- Included in delivery
  BS4-CK40

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Only use the included plastic clip BS4-CK40
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Large coverage
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- AC 2-wire, 20…250 VDC
- DC 2-wire, 10…300 VDC
- NO contact
- 1/2” male connector

Wiring Diagram

Functional principle
Inductive sensors detect metal objects contactless and wear-free. uprox® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.
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<table>
<thead>
<tr>
<th>Distance</th>
<th>Value</th>
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<tbody>
<tr>
<td>D</td>
<td>120 mm</td>
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<tr>
<td>W</td>
<td>105 mm</td>
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<tr>
<td>S</td>
<td>60 mm</td>
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<tr>
<td>G</td>
<td>210 mm</td>
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<tr>
<td>N</td>
<td>30 mm</td>
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Width active area B
40 mm
Accessories

<table>
<thead>
<tr>
<th>Type code</th>
<th>Ident-No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>BSS-CP40</td>
<td>6901318</td>
<td>Mounting bracket for rectangular devices; material: Polypropylene</td>
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