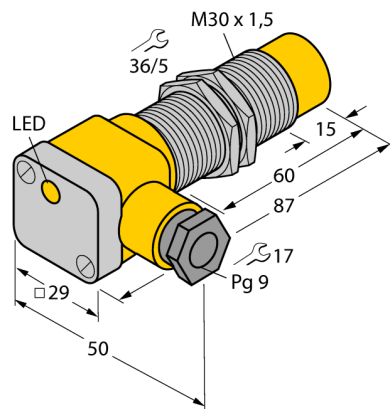


# Inductive sensor Ni15-G30SK-AZ3X

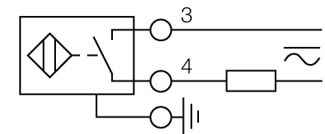
**TURCK**

Industrial  
Automation



- Threaded barrel, M30 x 1.5
- Short version
- Chrome-plated brass
- AC 2-wire, 20...250 VDC
- DC 2-wire, 10...300 VDC
- NO contact
- Terminal chamber

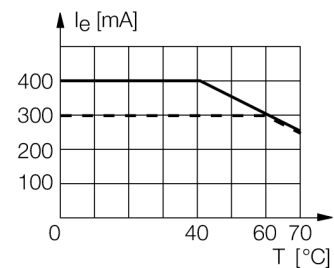
## Wiring diagram



## Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

|                                    |                                                     |
|------------------------------------|-----------------------------------------------------|
| <b>Type code</b>                   | Ni15-G30SK-AZ3X                                     |
| Ident no.                          | 43461                                               |
| <b>Rated switching distance Sn</b> | 15 mm                                               |
| Mounting conditions                | non-flush                                           |
| Assured switching distance         | $\leq (0,81 \times S_n)$ mm                         |
| Correction factors                 | St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4 |
| Repeatability                      | $\leq 2\%$ of full scale                            |
| Temperature drift                  | $\leq \pm 10\%$                                     |
| Hysteresis                         | 3...15 %                                            |
| Ambient temperature                | -25...+70 °C                                        |
| <b>Operating voltage</b>           | 20...250 VAC                                        |
| Operating voltage                  | 10...300VDC                                         |
| AC rated operational current       | $\leq 400$ mA                                       |
| DC rated operational current       | $\leq 300$ mA                                       |
| Frequency                          | $\geq 50... \leq 60$ Hz                             |
| Residual current                   | $\leq 1.7$ mA                                       |
| Rated insulation voltage           | $\leq 1.5$ kV                                       |
| Surge current                      | $\leq 8$ A ( $\leq 10$ ms max. 5 Hz)                |
| Voltage drop at $I_e$              | $\leq 6$ V                                          |
| Output function                    | 2-wire, NO contact                                  |
| Smallest operating current $I_m$   | $\geq 3$ mA                                         |
| Switching frequency                | 0.02 kHz                                            |
| <b>Construction</b>                | threaded barrel, M30 x 1.5                          |
| Dimensions                         | 87 mm                                               |
| Housing material                   | metal, CuZn, chrome-plated                          |
| Terminal chamber cover material    | plastic, Ultem                                      |
| Terminal chamber housing material  | plastic, plastic, PA12-GF20                         |
| Material active area               | plastic, PA                                         |
| Max. tightening torque housing nut | 75 Nm                                               |
| Connection                         | Terminal chamber                                    |
| Clamping ability                   | $\leq 2.5$ mm <sup>2</sup>                          |
| Cable external diameter            | 4.5...8mm                                           |
| Vibration resistance               | 55 Hz (1 mm)                                        |
| Shock resistance                   | 30 g (11 ms)                                        |
| IP Rating                          | IP67                                                |
| MTTF                               | 2283 years acc. to SN 29500 (Ed. 99) 40 °C          |
| <b>Switching state</b>             | LED red                                             |
| Included in delivery               | cable gland; 2x plastic seals                       |



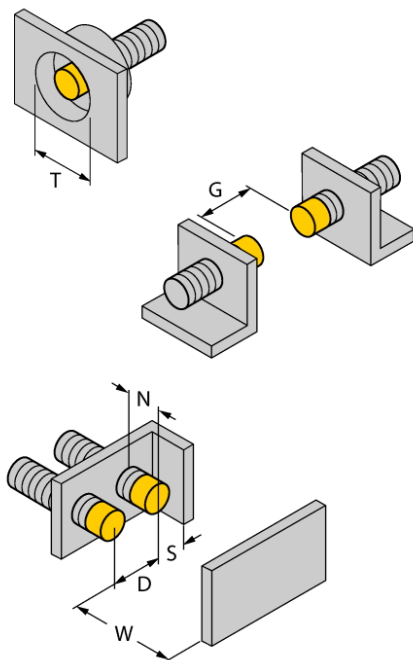
## Inductive sensor Ni15-G30SK-AZ3X

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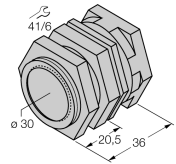
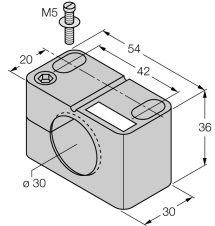
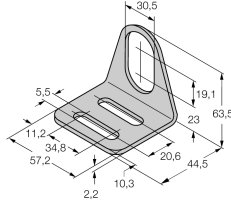
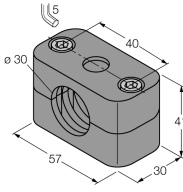
|            |         |
|------------|---------|
| Distance W | 3 x Sn  |
| Distance T | 3 x B   |
| Distance S | 1.5 x B |
| Distance G | 6 x Sn  |
| Distance N | 20 mm   |

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|                               |         |
|-------------------------------|---------|
| Diameter of the active area B | Ø 30 mm |
|-------------------------------|---------|



## Accessories

| Type code | Ident no. | Description                                                                                                                                                                                    | Design                                                                                |
|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| QM-30     | 6945103   | Quick-mount bracket with dead-stop; material: Chrome-plated brass Male thread M36 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick-mount brackets. |    |
| BST-30B   | 6947216   | Fixing clamp for threaded barrel devices, with dead-stop; material: PA6                                                                                                                        |    |
| MW-30     | 6945005   | Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)                                                                                                   |  |
| BSS-30    | 6901319   | Mounting bracket for smooth and threaded barrel devices; material: Polypropylene                                                                                                               |  |