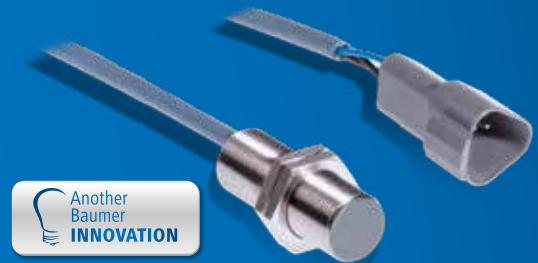


Off-highway inductive distance sensors.

Designed for reliability

Inductive analog sensors are the technology of choice in agricultural and off-highway machinery for distance sensing applications on metal objects and allow for robust, non-contact measurement. Baumer inductive technology and designed for reliability improves end customer uptime and productivity. The proven Baumer design and full industry compliance reduce R&D cost and time to market.

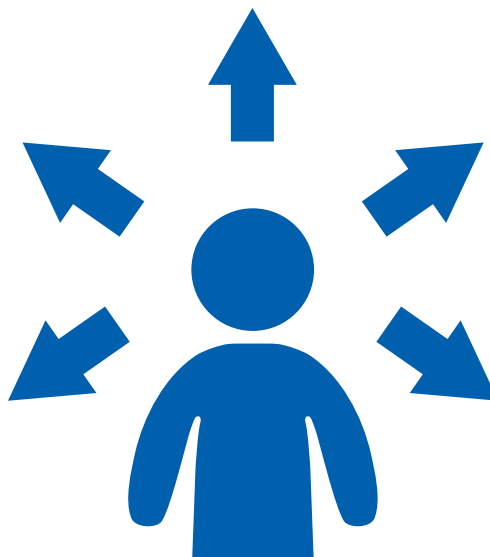
- High reliability design tested according to the highest off-highway industry standards
- HeavyDuty PUR cable for reliable crimping of heavy vehicle connectors
- Platform incorporates over 40 years inductive sensor know-how
- Best in class accuracy, linearity, temperature drift



Simple and easy design in due to full industry compliance (EN ISO 14982, EN 13309, ISO 13766, EN60947-5-7)

High reliability design reduces sensor fails and warranty issues

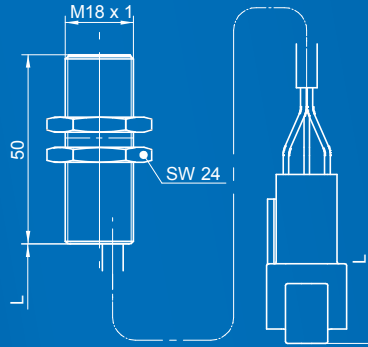
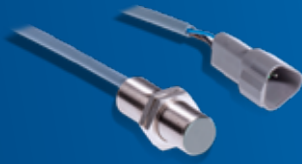
Due to analog output signals better process control and enhanced diagnostics



Suitable wire thickness for industry typical connectors reduces likelihood of connector failures

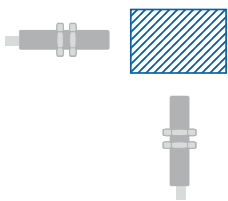
No wear, contactless, measurement

Product overview IR18

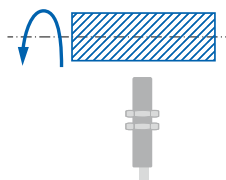


Part number	Electrical specification	Mechanical interface	Ambient conditions	Output function
IR18V.D08L-11177441	Supply voltage: 7 V ... 32 V (12 V vehicle power) Supply current: ≤ 15 mA Max. output current: ≤ 5 mA EMC: 100 V/m radiated, 200 mA BCI	Cylindrical threaded: (M18 x 1) Cable: PUR 3 x 0.75mm ² Connector: DEUTSCH DT04-3P (other connector systems are possible) L=350 mm (other lengths possible)	Storage / operating temperature: -40 °C ... +85 °C Protection class: IP 68 (1.5 m for 24 h) / IP 69K	Measuring distance Sd: 0 ... 8 mm Output voltage: 0.5 V ... 4.5 V Temperature drift: typ. $\pm 5\%$ Resolution: < 0.008 mm (static), < 0.01 mm (dynamic) Cutoff frequency: < 450 Hz
IR18V.D08L-11176397	Supply voltage: 4.75 V ... 5.25 V Supply current: ≤ 12 mA Max. output current: ≤ 1 mA EMC: 100 V/m radiated, 200 mA BCI			

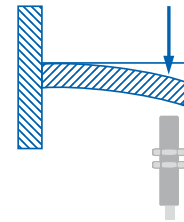
Some application fields for Baumer inductive distance sensors.



Precise positioning of objects



Shaft centering



Cost effective load determination (deflection on load bearing parts)



Passion for Sensors

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