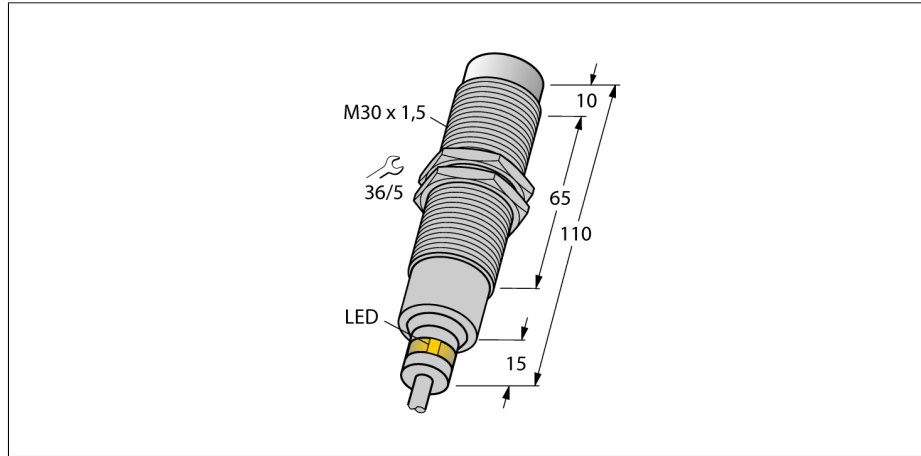


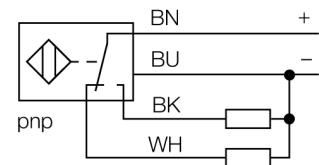
**Inductive sensor
for rough environments and temperatures up to +120°C
NI15-EM30D-VP6X/S120**



- Threaded barrel, M30 x 1.5
- Stainless steel, 1.4571
- Viton sealing ring
- Protection classes IP68 - IP69K
- For temperatures up to +120°C
- PTFE front cap
- Climate-proof
- Resistant to cooling lubricants, cutting and grinding oils
- For the food industry
- DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- Cable connection

Type code	NI15-EM30D-VP6X/S120
Ident no.	4617410
Rated operating distance Sn	15 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 20 %, ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-25...+120 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{in}
DC rated operational current	≤ 200 mA
Rated operational current	see derating curve
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	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	4-wire, changeover contact, PNP
Switching frequency	0.1 kHz
Design	threaded barrel, M30 x 1.5
Dimensions	110 mm
Housing material	Metal, V4A (1.4571)
Material active face	Plastic, PTFE
End cap	Plastic, PTFE
Admissible pressure on front cap	≤ 10 bar
Max. tightening torque housing nut	75 Nm
Connection	cable
Cable quality	3.7 mm, PTFE, FEP, 2 m
Cable cross section	4 x 0.25 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K
Switching state	● yellow

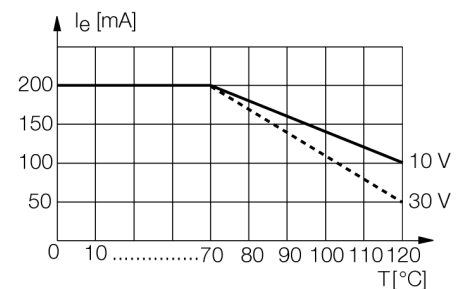
Wiring diagram



Functional principle

TURCK offers leak-proof sensors for the food industry and machine engineering that are resistant to cleaning agents, cooling lubricants, cutting and grinding oils. They are made for rough environmental conditions and not only meet but even exceed the requirements of the protection classes IP68 and IP69. Special versions are available for ambient temperatures between -60°C and +250°C.

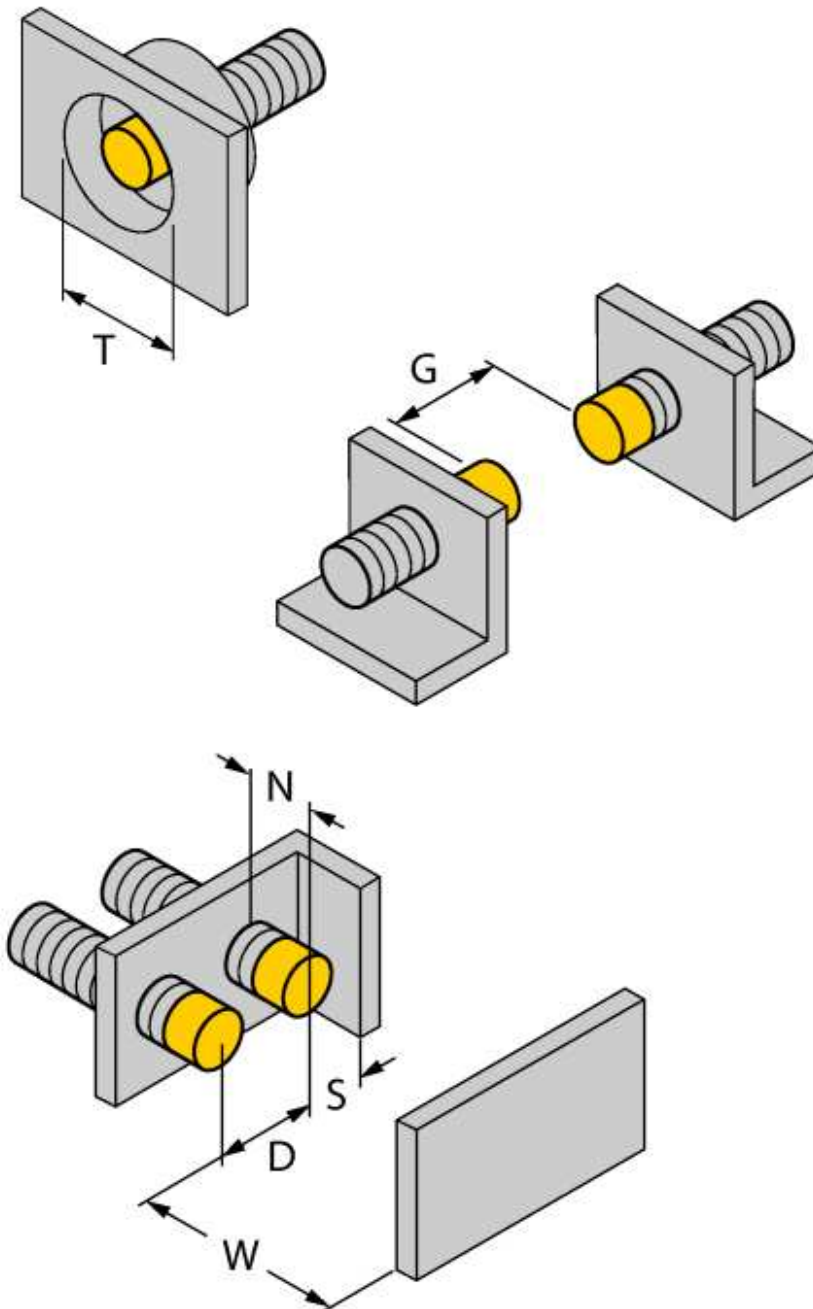
derating curve



**Inductive sensor
for rough environments and temperatures up to +120°C
NI15-EM30D-VP6X/S120**

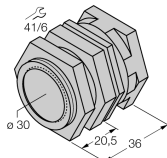
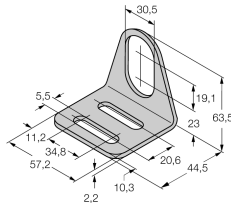
Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	20 mm

Diameter of the active area B \varnothing 30 mm



**Inductive sensor
for rough environments and temperatures up to +120°C
NI15-EM30D-VP6X/S120**

Accessories

Type code	Ident no.	Description	Dimension drawing
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.	 <p>Technical drawing of a quick-mount bracket (QM-30) showing dimensions: 41/6 (thread), 36 (total length), 20.5 (flange length), and 30 (diameter).</p>
MW-30	6945005	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	 <p>Technical drawing of a mounting bracket (MW-30) showing dimensions: 30.5 (top width), 19.1 (height), 63.5 (total height), 23 (hole offset), 5.5 (flange thickness), 11.2 (flange width), 34.8 (flange length), 57.2 (total length), 2.2 (thickness), 10.3 (hole diameter), 20.6 (hole offset), and 44.5 (total width).</p>