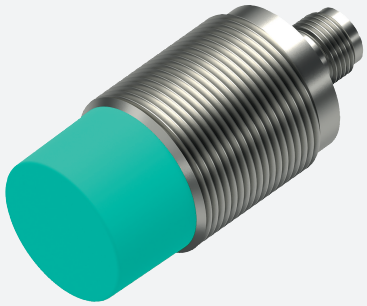
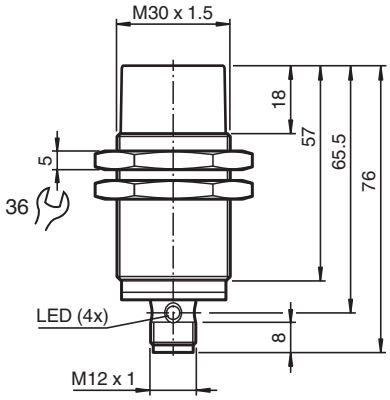


Inductive sensor

NBN25-30GM60-E3-V1

- Use in harsh environments
- High shock resistance
- Extended temperature range -40 ... +85 °C
- Extended operating voltage range

Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	s_n	25 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 20.25 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 75 mm x 75 mm x 1 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.42
Reduction factor r_{304}		0.7
Reduction factor r_{Brass}		0.5
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	6 ... 36 V
Switching frequency	f	0 ... 400 Hz

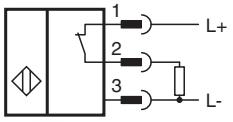
Release date: 2026-03-11 Date of issue: 2026-03-11 Filename: 326161-0268_eng.pdf

Technical Data

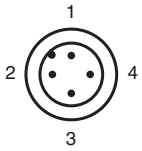
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 1 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	max. 20 µA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 10 ms
Switching state indicator		Multihole-LED, yellow
Safety-relevant product characteristics		
$MTTF_d$		1594 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Conformity		
PWIS conformity		VDMA 24364-A1/B2/C1/T100°C-W
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
Protection class		II
Rated insulation voltage	U_i	36 V
Rated impulse withstand voltage	U_{imp}	500 V
UL approval		cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 36 V DC Output Switching Current: 200 mA
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		brass , white bronze coated
Sensing face		PBT , green
Degree of protection		IP65 / IP66 / IP67 / IP68 / IP69
Connector		
Threading		M12 x 1
Number of pins		3
Mass		136 g
Dimensions		
Length		76 mm
Diameter		30 mm
Mounting		with nuts, M30
Tightening torque		≤ 30 Nm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Release date: 2026-03-11 Date of issue: 2026-03-11 Filename: 326161-0268_eng.pdf

Connection Assignment



Connection Assignment



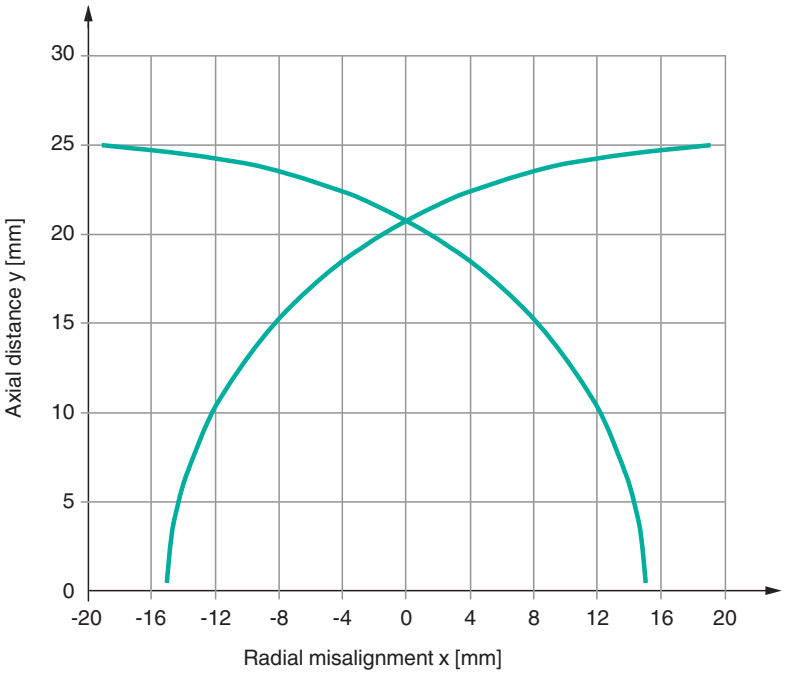
Wire colors in accordance with EN 60947-5-2

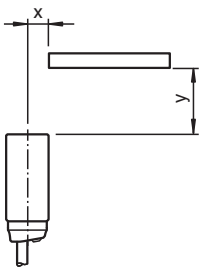
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Release date: 2026-03-11 Date of issue: 2026-03-11 Filename: 326161-0268_eng.pdf

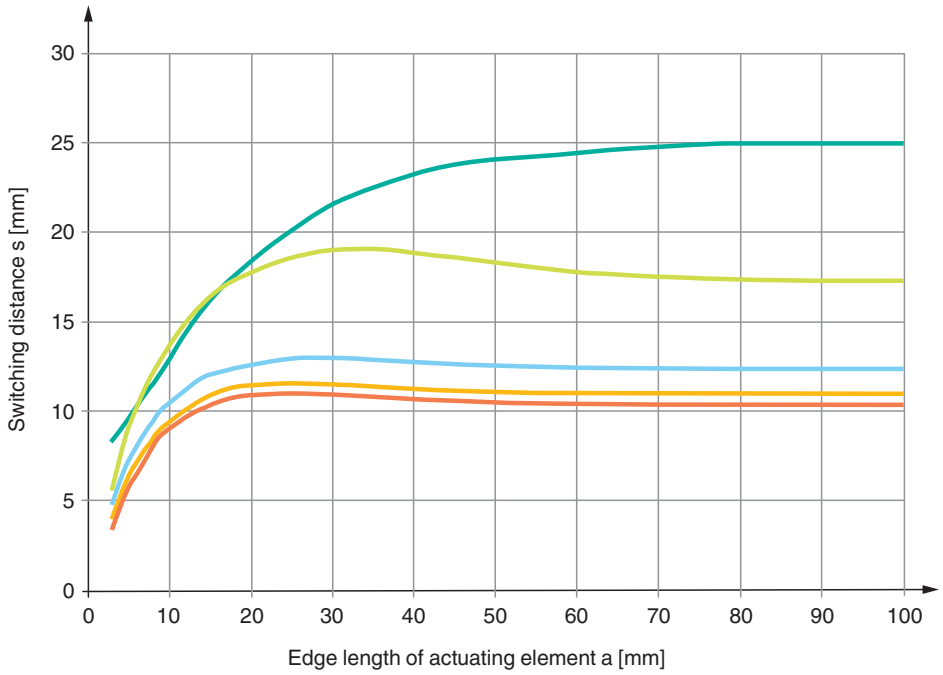
Characteristic Curve

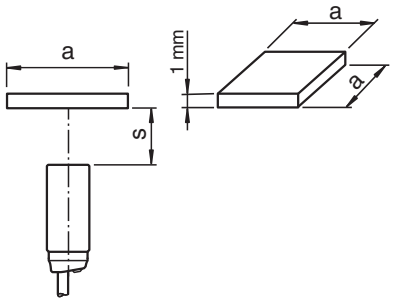
Actuation by radial approach (standard target)





Switching distance depending on the actuating element





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