

# Inductive sensor

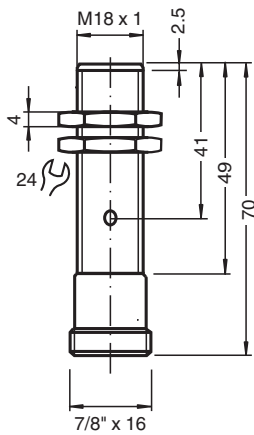
## NMB10-18GM70-E2-V94



- 10 mm flush
- Stainless steel sensing face
- Increased operating distance



### Dimensions



### Technical Data

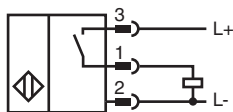
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	10 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.25
Reduction factor $r_{304}$		0.85
Reduction factor $r_{St37}$		1
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	240 Hz
Hysteresis	$H$	3 ... 15 typ. 10 %

Release date: 2025-06-06 Date of issue: 2025-06-06 Filename: 9111272\_eng.pdf

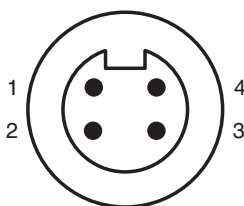
## Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2 \text{ V}$
Operating current	$I_L$	$\leq 200 \text{ mA}$
Off-state current	$I_r$	$10 \mu\text{A}$
No-load supply current	$I_0$	$\leq 10 \text{ mA}$
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		847 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
Operation indicator		Dual LED Green: power Yellow: output
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 200 mA
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug 7/8 inch-16 UN , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		Stainless steel 1.4305 / AISI 303
Degree of protection		IP67
Dimensions		
Length		70 mm
Diameter		18 mm

## Connection



## Connection Assignment

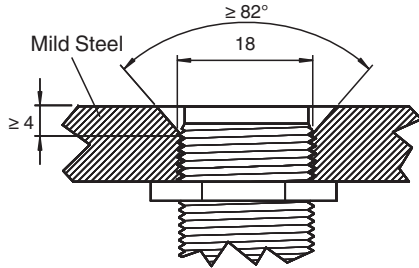


## Connection Assignment

### Wire colors

1	BK	(black)
2	WH	(white)
3	RD	(red)
4	GN	(green)

## Mounting



Sensor face is flush with mounting surface.