

# Inductive sensor

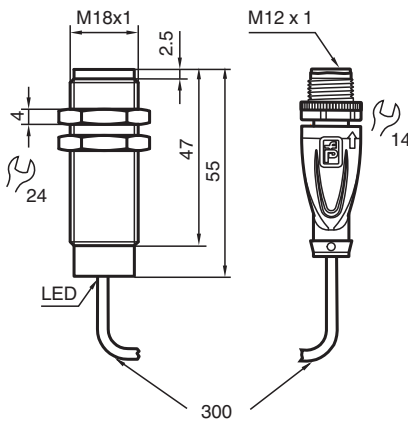
## NMB10-18GM55-Z4-C4-300MM-V1



- 10 mm flush
- Increased operating distance
- Stainless steel sensing face
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Fixed cable with quick disconnect plug



### Dimensions



### Technical Data

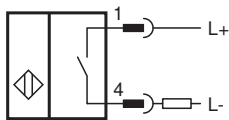
General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.25
Reduction factor $r_{304}$		0.85
Reduction factor $r_{S137}$		1
Output type		2-wire
Nominal ratings		
Operating voltage	$U_B$	6 ... 30 V DC
Switching frequency	$f$	1 Hz
Hysteresis	$H$	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		yes

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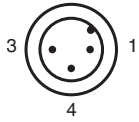
## Technical Data

Voltage drop	$U_d$	< 3 V DC
Operating current	$I_L$	2 ... 100 mA
Off-state current	$I_r$	< 400 $\mu$ A
Switching state indicator		LED, red
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cURus Recognized Load Type: General Purpose Circuitry: Class 2 Power Source Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		fixed cable with plug
Housing material		Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face		Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection		IP67
<b>Connector</b>		
Threading		M12 x 1
Tightening torque		$\leq 0.6$ Nm
Number of pins		3
<b>Cable</b>		
Cable diameter		4.8 mm $\pm$ 0.2 mm
Material		POC
Color		orange
Number of cores		4
Core cross section		0.34 mm <sup>2</sup>
Length	L	300 mm
Mass		76 g
<b>Dimensions</b>		
Length		55 mm
Diameter		18 mm

## Connection



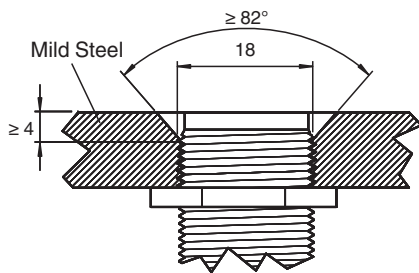
## Connection Assignment



Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
3		BU	(blue)
4		BK	(black)

## Mounting



Sensor face is flush with mounting surface.