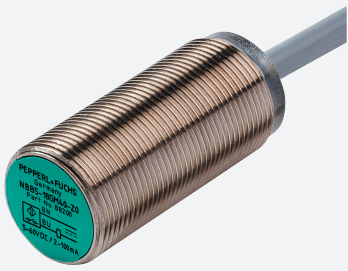


# Inductive sensor

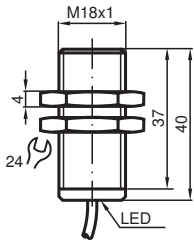
## NCB5-18GM40-Z0-3G-3D



- Comfort series
- ATEX-approval for zone 2 and zone 22



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	$s_n$	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 4.05 mm
Actual operating distance	$s_r$	4.5 ... 5.5 mm typ. 5 mm
Reduction factor $r_{Al}$		0.37
Reduction factor $r_{Cu}$		0.33
Reduction factor $r_{304}$		0.7
Output type		2-wire

#### Nominal ratings

Operating voltage	$U_B$	5 ... 60 V
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**PF** PEPPERL+FUCHS

## Technical Data

Switching frequency	f	0 ... 350 Hz
Hysteresis	H	1 ... 10 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 5$ V
Operating current	$I_L$	2 ... 100 mA
Lowest operating current	$I_m$	2 mA
Off-state current	$I_r$	0 ... 0.5 mA typ.
Switching state indicator		all direction LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>	1739 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

### Approvals and certificates

ATEX approval	
Equipment protection level Gc (nA)	PF15CERT3754X
Equipment protection level Dc (tc)	PF15CERT3774X
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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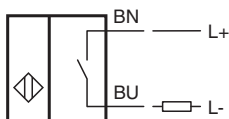
### Mechanical specifications

Connection type	cable PVC , 2 m
Cable version	PA
Core cross-section	0.34 mm <sup>2</sup>
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	PBT
Degree of protection	IP66 / IP67
Cable	
Cable diameter	4.8 mm ± 0.2 mm
Bending radius	> 10 x cable diameter

### General information

Use in the hazardous area	see instruction manuals
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## Connection



**Accessories**

	<p><b>BF 18</b></p>	<p>Mounting flange, 18 mm</p>
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