

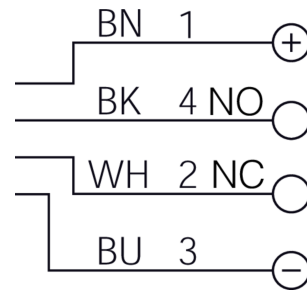
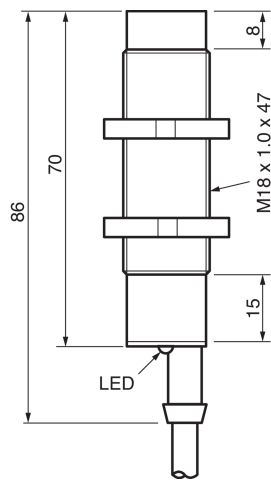


215243

KNS-M18/86V-N12PS-2C4

Capacitive proximity sensor

- Increased voltage range of 10 ... 40 V DC
- Temperature-resistant sensor surface up to 120°C
- Metal casing
- PEEK surface, resistant to abrasive substances



BK: black

BN: brown

BU: blue

WH: white

Function



Technical data (typ.)

+20°C, 24 V DC

Electrical features

Service voltage	10 ... 40 V DC
No-load current (max.)	< 20 mA
Inverse polarity protection	Yes
Short-circuit protection	Yes
Insulation voltage endurance	50 V DC

Mechanical features

Installation type	non-flush
Thread	M18 x 1
Housing length	86 mm
Housing material	Stainless steel (AISI316L)
Material of cable	PVC
Material	PEEK (Sensor probe)
Weight	170 g
Tightening torque	25 Nm (max.)

Certifications, approvals

Protection class	III, operation on protective low voltage
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+20°C, 24 V DC

General features

Operating principle	Capacitive
Design	Thread

Functional scope

Scope of delivery	Sensor, 2 x M18 nuts, Setting tool
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Output, input, interface

Switching output	pnp, 200 mA, NO/NC
Voltage drop (max.)	1 V (200 mA)
Interface	No

Detection range, measuring range, tolerance limits

Switching distance (SN)	12 mm (0 ... 12 mm adjustable)
Standardized measuring plate	36 x 36 x 1 mm
Switching hysteresis (max.)	< 5 %

Display, operation

Sensitivity adjustment	Potentiometer (16-turn)
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Time behavior

Switching frequency	50 Hz
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Ambient conditions

Ambient temperature during operation	-30 ... +85 °C
Ambient temperature storage	-40 ... +85 °C
Ambient humidity operation	35 ... 95 %
Ambient humidity storage	35 ... 95 %
Protection type	IP 67 / IP 68 (60 min.)

Electrical connection

Connection	Cable, 2.0 m, 4-pin
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More information / accessories

<https://www.di-soric.com/215243>