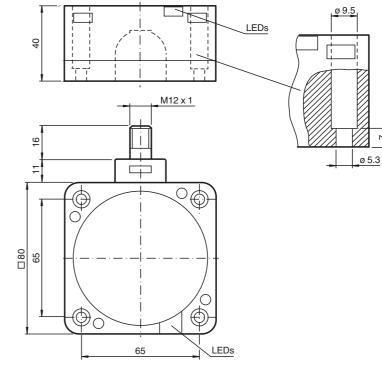
	Technical Data		
0	General specifications		
5 - 23	Switching function		complementary
St - 20 Dawn C	Output type		PNP
TEN TEN	Rated operating distance	Sn	40 mm
Sur Stra	Installation		flush
NORCE STREET	Output polarity		DC
and	Assured operating distance	sa	0 32.4 mm
	Reduction factor r <sub>AI</sub>		0.25
	Reduction factor r <sub>Cu</sub>		0.23
	Reduction factor r <sub>304</sub>		0.85
	Output type		4-wire
	Nominal ratings		
	Operating voltage	UB	10 30 V
	Switching frequency	f	0 80 Hz
	Hysteresis	н	typ. 3 %
	Reverse polarity protection		reverse polarity protected
	Short-circuit protection		pulsing
	Voltage drop	U <sub>d</sub>	≤ 3 V
	Operating current	۱L	0 200 mA
CE <b>(SP</b> <sup>®</sup> c(VL)us	Off-state current	l <sub>r</sub>	0 0.5 mA
c Us	No-load supply current	I <sub>0</sub>	≤ 20 mA
	Time delay before availability	t <sub>v</sub>	≤ 300 ms
	Operating voltage indicator		LED, green
	Switching state indicator		LED, yellow
Model Number	Functional safety related param	eters	
	MTTFd		554 a
NCB40-FP-A2-T-P1-V1	Mission Time (T <sub>M</sub> )		20 a
NGD40-FF-A2-I-F I-V I	Diagnostic Coverage (DC)		0 %
	Ambient conditions		
Features	Ambient temperature		-25 100 °C (-13 212 °F)
	Mechanical specifications		
<ul> <li>Comfort series</li> </ul>	Connection type		Connector M12 x 1, 4-pin
• 40 mm flush	Housing material		PBT
40 min nush	Sensing face		PBT
A	Housing base		PBT
Accessories	Degree of protection		IP68
V1-G-2M-PUR Compliance with standards and directives			
Female cordset, M12, 4-pin, PUR cable	Standard conformity		
V1-W-2M-PUR	Standards		EN 60947-5-2:2007
Female cordset, M12, 4-pin, PUR cable	Standards		EN 60947-5-2/A1:2012
V1-G			IEC 60947-5-2:2007
Female connector, M12, 4-pin, field attachable			IEC 60947-5-2 AMD 1:2012
V1-W	Approvals and certificates		
Female connector, M12, 4-pin, field attachable			
r emale connector, wrz, 4-pin, neid attachable	UL approval		cULus Listed, General Purpose
	CSA approval		cCSAus Listed, General Purpose
	CCC approval		CCC approval / marking not required for products rated ≤36 V
Dimensions			
	· · · · · · · · · · · · · · · · · · ·		
			Ø 9.5





Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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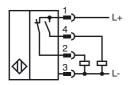


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PEPPERL+FUCHS

## NCB40-FP-A2-T-P1-V1

## **Electrical Connection**



## Pinout



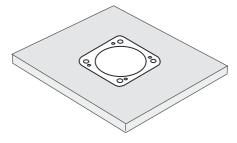
Wire colors in accordance with EN 60947-5-2

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

## **Installation Hint**

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.



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