



Your Global Automation Partner

Capacitive 2.0

Next Generation Capacitive Sensors

Capacitive 2.0

TURCK's next generation of capacitive sensors delivers highly flexible, non-contact detection for a wide range of industrial applications. Reliably sense solids, liquids, powders, and bulk materials all in the same device with precision and without wear. Designed for versatility, these sensors combine robust cylindrical housings with an IO-Link interface, enabling seamless integration into modern automation systems. With features such as intuitive teach-in functions, dual switching outputs, and digital potentiometer or software-based parameterization, users can quickly tailor sensitivity and switching behavior to their specific processes with or without an IO-Link master. The result is a smart, adaptable sensing solution that enhances efficiency, improves monitoring accuracy, and simplifies commissioning across diverse environments.

Features and Benefits

- IO-Link and SIO mode in one device
- Potentiometer with optical feedback
- Simple teach-in functionality
- Teach monitor with TAS
- Can detect low dielectric materials
- Noise immunity

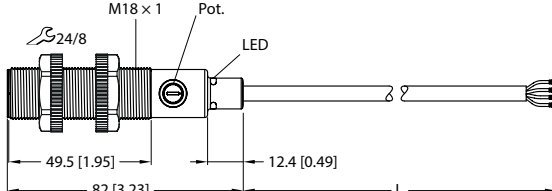
General Data			
Hysteresis:	1%...15%	Switching Frequency:	0.1 kHz
Output:	2 Switching + IO-Link	Ambient Temperature:	-40...60 °C
Communication Protocol:	IO-Link	Protection Class:	IP67
Process Data Width:	32 bit	Potentiometer:	Yes
Measured Data Width:	12 bit	Power On State LED:	Green
Voltage(SIO Mode):	10 - 30 VDC	Switching State LED:	Yellow
Voltage(IOL Mode):	18 - 30 VDC	Error State LED:	Red
Voltage Drop:	≤ 1V	Approvals:	UKCA, CE, UL
Operating Current:	≤ 200 mA		

Quick Links:

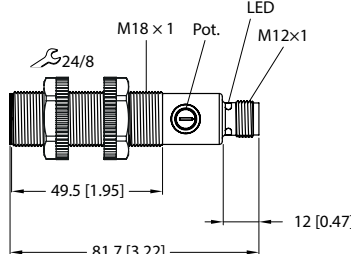


Capacitive 2.0

M18, Universal

Housing Style		Dimension Drawing					
		 mm [Inch]					

Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050168	UC15-S18-IOL	10mm	15mm	M18	PA12-GF30 + PEI	≤ 5 bar	2m PVC Cable

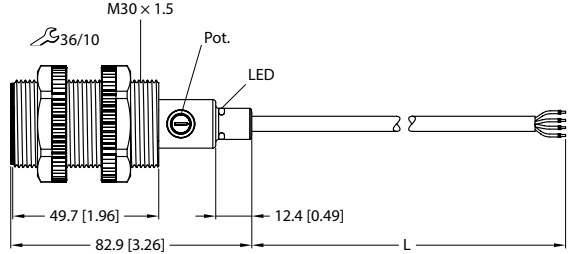
Housing Style		Dimension Drawing					
		 mm [Inch]					

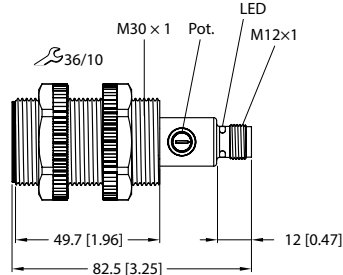
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050169	UC15-S18-IOL-H1141	10mm	15mm	M18	≤ 5 bar	M12x1	2m PVC Cable

General Data							
Hysteresis: 1%...15% Output: 2 Switching + IO-Link Communication Protocol: IO-Link Process Data Width: 32 bit Measured Data Width: 12 bit Voltage(SIO Mode): 10 - 30 VDC Voltage(IOL Mode): 18 - 30 VDC Voltage Drop: ≤ 1V Operating Current: ≤ 200 mA				Switching Frequency: 0.1 kHz Ambient Temperature: -40...60 °C Protection Class: IP67 Potentiometer: Yes Power On State LED: Green Switching State LED: Yellow Error State LED: Red Approvals: UKCA, CE, UL			

Capacitive 2.0

M30, Universal

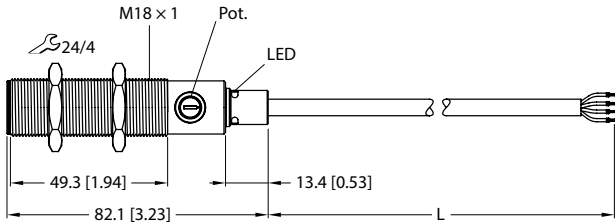
Housing Style				Dimension Drawing			
							
				mm [Inch]			
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050170	UC25-S30-IOL	15mm	25mm	M30	PA12-GF30 + PEI	≤ 4 bar	2m PVC Cable

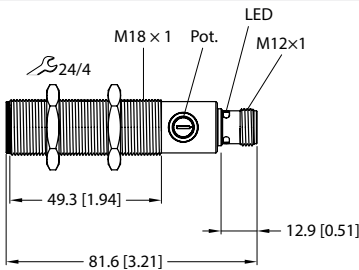
Housing Style				Dimension Drawing			
							
				mm [Inch]			
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050171	UC25-S30-IOL-H1141	15mm	25mm	M30	PA12-GF30 + PEI	≤ 4 bar	M12x1

General Data							
Hysteresis: 1%...15%				Switching Frequency: 0.1 kHz			
Output: 2 Switching + IO-Link				Ambient Temperature: -40...60 °C			
Communication Protocol: IO-Link				Protection Class: IP67			
Process Data Width: 32 bit				Potentiometer: Yes			
Measured Data Width: 12 bit				Power On State LED: Green			
Voltage(SIO Mode): 10 - 30 VDC				Switching State LED: Yellow			
Voltage(IOL Mode): 18 - 30 VDC				Error State LED: Red			
Voltage Drop: ≤ 1V				Approvals: UKCA, CE, UL			
Operating Current: ≤ 200 mA							

Capacitive 2.0

M18, Flush

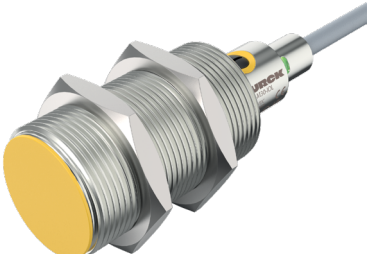
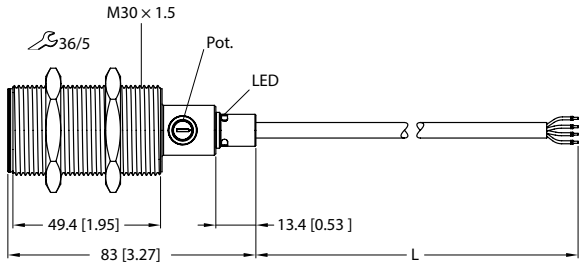
Housing Style		Dimension Drawing					
							
		mm [Inch]					
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050172	BC8-M18-IOL	8mm	8mm	M18	CuZn + PA12-GF30	≤ 5 bar	2m PVC Cable

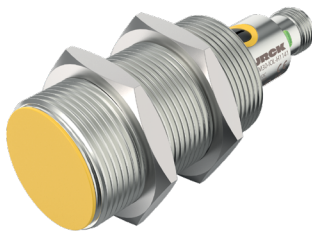
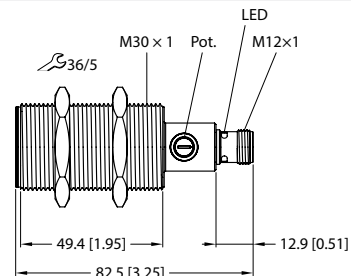
Housing Style		Dimension Drawing					
							
		mm [Inch]					
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050174	BC8-M18-IOL-H1.141	8mm	8mm	M18	CuZn + PA12-GF30	≤ 5 bar	M12x1

General Data			
Hysteresis:	1%...15%	Switching Frequency:	0.1 kHz
Output:	2 Switching + IO-Link	Ambient Temperature:	-40...60 °C
Communication Protocol:	IO-Link	Protection Class:	IP67
Process Data Width:	32 bit	Potentiometer:	Yes
Measured Data Width:	12 bit	Power On State LED:	Green
Voltage(SIO Mode):	10 - 30 VDC	Switching State LED:	Yellow
Voltage(IOL Mode):	18 - 30 VDC	Error State LED:	Red
Voltage Drop:	≤ 1V	Approvals:	UKCA, CE, UL
Operating Current:	≤ 200 mA		

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M30, Flush

Housing Style				Dimension Drawing			
							
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050173	BC15-M30-IOL	15mm	15mm	M30	CuZn + PA12-GF30	≤ 4 bar	2m PVC Cable

Housing Style				Dimension Drawing			
							
Material ID	Part Number	Range (Flush Mount)	Range (Non-Flush Mount)	Size	Housing Material	Admissible Front Cap Pressure	Electrical Connection
100050175	BC15-M30-IOL-H1141	15mm	15mm	M30	CuZn + PA12-GF30	≤ 4 bar	M12x1

General Data			
Hysteresis:	1%...15%	Switching Frequency:	0.1 kHz
Output:	2 Switching + IO-Link	Ambient Temperature:	-40...60 °C
Communication Protocol:	IO-Link	Protection Class:	IP67
Process Data Width:	32 bit	Potentiometer:	Yes
Measured Data Width:	12 bit	Power On State LED:	Green
Voltage(SIO Mode):	10 - 30 VDC	Switching State LED:	Yellow
Voltage(IOL Mode):	18 - 30 VDC	Error State LED:	Red
Voltage Drop:	≤ 1V	Approvals:	UKCA, CE, UL
Operating Current:	≤ 200 mA		

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