



C18FT

C18FT/BP-4EIO

Capacitive sensor M18 DC, Conn., IO-Link,
No-Shield

OVERVIEW

- Sensors for food and beverage applications
- High noise immunity
- IO-Link communication
- ECOLAB certified sensors
- IP69K mechanical protection



ECOLAB® IO-Link



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12mm
Thermal drift of Sr	< 20%
Repeat Accuracy	5%
Sensitivity adjustment	Yes
Hysteresis	≤ 20%

Outputs

Output type	NPN, PNP, Push-pull, IO-Link
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Output Function	NO+NC/IO-Link
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Switching frequency	50Hz
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Electrical data

Operating Voltage	10...40Vdc
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No-Load supply current	$\leq 20\text{mA}$
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Load current	$\leq 200\text{mA}$
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Leakage current	$\leq 100\mu\text{A}$
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Output voltage drop	$\leq 1.0\text{ VDC @ } 200\text{ mA DC}$
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Max ripple content	$\leq 10\%$
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LED indicators	Yellow LED (object detected), green LED power supply/stability
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Time delay before availability	$\leq 300\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Impulsive Overvoltage Protection	Yes
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Mechanical data

Mounting	Unshielded
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Housing material	PTFE
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Weight	62g
Connections	M12 plug
Active Head Material	PTFE
Tightening torque	≤ 1 Nm
Storage temperature	-40°C...+85°C
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cULus IO-Link ECOLAB
EMC compatibility	EN60947-1; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

Accessories

Supplied Accessories	screw driver, 2 x M18 nuts
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Generical Data

Dimensions	M18 / L = 85mm
Operating Temperature	-30°C...+85°C (without freeze)
Mechanical Protection	IP68, IP69K

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