

BCF sensors with close-up range suppression

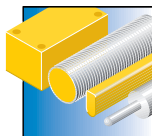


Thanks to the new switching technology in combination with optimized electrode and compensation features, the BCFs work reliably under difficult application conditions. Even conductive coatings are not a problem at all. To avoid HF crosstalk and other interferences, the potentiometer is located in a less sensitive area of the circuit, this applies to all capacitive TURCK sensors. Even applications that are subject to strong interferences do not require additional protective measures. All sensors of the BCF series are immune to radiated and conducted HF interference, burst as well as electrostatic discharge (ESD).

Features

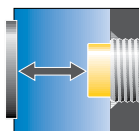
- Automatic wetting compensation
- Increased EMI shielding (even with high frequency equipment)
- High protection class
- New close-up range suppression

Properties



Designs

Cylindrical designs M18 x 1, M30 x 1.5 and Ø 34 mm and Ø 40 and rectangular



Switching distances

5 ... 15 mm, flush mounting



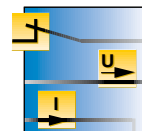
Materials

PA or PBT housings



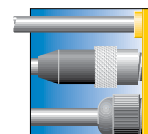
Internet link

Scan the QR code to access our products on the internet



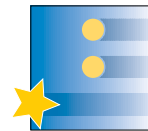
Electrical versions

2-wire AC and 3/4-wire DC, NPN or PNP switching, NC, NO or with antivalent switching output



Electrical connections

2 m cable PVC or PUR, male M12 x 1



Special features

Close-up range suppression, EMC stability

BCF – S18



General data

Operating voltage	10...65 VDC
Switching distance	5 mm,
Operating current [mA]	200,

Output	PNP
Housing material	PA12-GF30
Ambient temperature	-25...+70 °C

Types and data – selection table

Type	Connection	Dimensions	Adjustment		
BCF5-S18-AP4X	2 m cable	Ø 18 x 74 mm	Potentiometer	w061	d416
BCF5-S18-AP4X-H1141/S250	male, M12 x 1	Ø 18 x 83 mm	fixed	w064	d415

Many different types available, also as NPN version, see type code

BCF – S30



General data

Switching distance	10 mm,
Ambient temperature	-25...+70 °C

Housing material	PA12-GF30
Adjustment	Potentiometer

Types and data – selection table

Type	Connection	Operating voltage	Output	Operating current [mA]	Dimensions		
BCF10-S30-VP4X	2 m cable	10...65 VDC	PNP	200,	Ø 30 x 62.5 mm	w067	d419
BCF10-S30-VP4X-H1141	male, M12 x 1	10...65 VDC	PNP	200,	Ø 30 x 60 mm	w069	d418
BCF10-S30-AZ3X	2 m cable	20...250 VAC	2-wire	–	Ø 30 x 62.5 mm	w071	d419
BCF10-S30-RZ3X	2 m cable	20...250 VAC	2-wire	–	Ø 30 x 62.5 mm	w072	d419

Many different types available, also as NPN version, see type code

BCF – K34



General data

Connection	2 m cable
Switching distance	15 mm,
Ambient temperature	-25...+70 °C
Adjustment	Potentiometer

Operating voltage	20...250 VAC
Housing material	PBT
Dimensions	Ø 34 x 80 mm

Types and data – selection table

Type	Output	w	d
BCF15-K34-RZ3X	, 2-wire	w072	d423
BCF15-K34-AZ3X	, 2-wire	w071	d423

BCF – Q20L60



General data

Operating voltage	10...65 VDC
Switching distance	10 mm,
Operating current [mA]	200,
Dimensions	30 x 20 x 60 mm

Output	, PNP
Housing material	PC
Ambient temperature	-25...+70 °C
Adjustment	Potentiometer

Types and data – selection table

Type	Connection	w	d
BCF10-Q20L60-AP4X	2 m cable	w061	d429
BCF10-Q20L60-AP4X-H1141	male, M12 x 1	w064	d430

