# Rectangular designs

Rectangular shaped capacitive sensors are the compact solution for your facilities. The rugged housing and high-quality components provide additional options for installation and detection. The 8 mm Q08 as well as the variable CP80 convince through easy mounting and short blind zones.
The rectangular types thus simplify the assembly and enhance the operability of your systems.
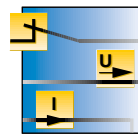
Features

- Stable and resistant housings
- Large switching distances
- Excellent EMC properties
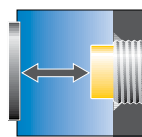- Easy to mount
- Connector and cable versions

Properties
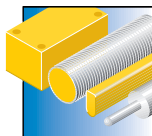
Designs
All designs available, from the flat 5.5 mm QF5.5 up to the big sized 80 x 40.5 x 80 mm CP80

Electrical versions
3-wire and 4-wire DC, as well as 2-wire AC and NAMUR devices, PNP and NPN switching; NO, NC contact or with antivalent switching output

Switching distances
5 mm versions for close-range detection, 50 mm versions for long ranges
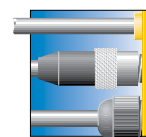
Electrical connections
2 m cable PVC or PUR, male M8 x 1, Ø 8 mm and M12 x 1 or terminal chamber

Materials
Rugged and chemical resistant plastic and metal housings

Special features
Fine adjustment via potentiometer,

Internet link
Scan the QR code to access our products on the internet

QF5,5
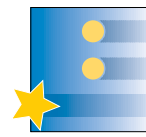

General data

Connection	2m cable	**Housing material**	PP
Ambient temperature	-25…+70 °C	**Dimensions**	20.3 x 5.5 x 54 mm

Types and data – selection table

Type	Operating voltage	Output	Switching distance	Approvals	Operating current [mA]	Adjustment	w	d
BC10-QF5,5-AP6X2	10…30 VDC	⎯◠, PNP	10 mm, ▱▭	–	200, Ⓚ	Potentiometer	w061	d394
BC10-QF5,5-RP6X2	10…30 VDC	⊥◠, PNP	10 mm, ▱▭	–	200, Ⓚ	Potentiometer	w062	d394
BC5-QF5,5-Y1X/S250	8.2 VDC	NAMUR	5 mm, ▱▭	⟨Ex⟩ II 2 G ⟨Ex⟩ II 1 D SIL2	–	fixed	w063	d395

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

Q08

General data

Operating voltage	10…30 VDC	**Switching distance**	5 mm, ▱▭
Housing material	GD-Zn	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-25…+70 °C	**Dimensions**	20 x 8 x 32 mm
Adjustment	fixed		

Types and data – selection table

Type	Connection	Output	w	d
BC5-Q08-AP6X2-V1131/S250	male, Ø 8 mm	⎯◠, PNP	w064	d396
BC5-Q08-AP6X2/S250	2 m cable	⎯◠, PNP	w061	d397
BC5-Q08-RP6X2/S250	2 m cable	⊥◠, PNP	w062	d397
BC5-Q08-RP6X2-V1131/S250	male, Ø 8 mm	⊥◠, PNP	w066	d396

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

w Wiring diagrams on page 658   d Dimension drawing on page 670   Accessories on page 560

Q10

General data

Operating voltage	10…30 VDC	**Switching distance**	8 mm,
Housing material	PBT	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-25…+70 ℃	**Dimensions**	25 x 10.8 x 42 mm
Adjustment	fixed		

Types and data – selection table

Type	Connection	Output		w	d
BC8-Q10-AP6X2/S250	2 m cable	⎍, PNP		w061	d398
BC8-Q10-RP6X2/S250	2 m cable	�⌐⎍, PNP		w062	d398
BC8-Q10-AP6X2-V1131/S250	male	⎍, PNP		w064	d399
BC8-Q10-RP6X2-V1131/S250	male	�⌐⎍, PNP		w066	d399

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

Q14

General data

Operating voltage	10…65 VDC	**Switching distance**	10 mm,
Housing material	PBT	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-25…+70 ℃	**Dimensions**	30 x 14 x 55.5 mm
Adjustment	Potentiometer		

Types and data – selection table

Type	Connection	Output		w	d
BC10-Q14-AP4X2	2 m cable	⎍, PNP		w061	d400
BC10-Q14-VP4X2	2 m cable	⌐⎍, PNP		w067	d400
BC10-Q14-RP4X2	2 m cable	�⌐⎍, PNP		w062	d400
BC10-Q14-AP4X2-V1131	male, M8 x 1	⎍, PNP		w064	–

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

Q20

General data

Switching distance	20 mm,	**Housing material**	PBT
Ambient temperature	-25…+70 ℃	**Dimensions**	40 x 20 x 68 mm
Adjustment	Potentiometer		

Types and data – selection table

Type	Connection	Operating voltage	Output	Operating current [mA]	w	d
BC20-Q20-AP4X2-H1141	male, M12 x 1	10…65 VDC	, PNP	200, Ⓚ	w064	d401
BC20-Q20-AP4X2	2 m cable	10…65 VDC	, PNP	200, Ⓚ	w061	d402
BC20-Q20-RP4X2	2 m cable	10…65 VDC	, PNP	200, Ⓚ	w062	d402
BC20-Q20-RP4X2-V1131	male, M8 x 1	10…65 VDC	, PNP	200, Ⓚ	w066	d403
BC20-Q20-VP4X2-H1141	male, M12 x 1	10…65 VDC	, PNP	200, Ⓚ	w069	d401
BC20-Q20-AZ3X2	2 m cable	20…250 VAC	, 2-wire	–	w071	d402
BC20-Q20-RZ3X2	2 m cable	20…250 VAC	, 2-wire	–	w072	d402

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

CP40

General data

|			
Switching distance	20 mm,	**Housing material**	PBT
Ambient temperature	-25…+70 ℃	**Dimensions**	40 x 40 x 114 mm
Adjustment	Potentiometer		

Variable orientation of active face in 9 directions

Types and data – selection table

Type	Connection	Operating voltage	Output	Operating current [mA]	w	d
BC20-CP40-VP4X2	Terminal chamber	10…65 VDC	, PNP	200, Ⓚ	w073	d404
BC20-CP40-VP4X2-H1141	male, M12 x 1	10…65 VDC	, PNP	200, Ⓚ	w069	d405
BC20-CP40-FZ3X2	Terminal chamber	20…250 VAC	connection programmable, 2-wire	–	w074	d404

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

CP80
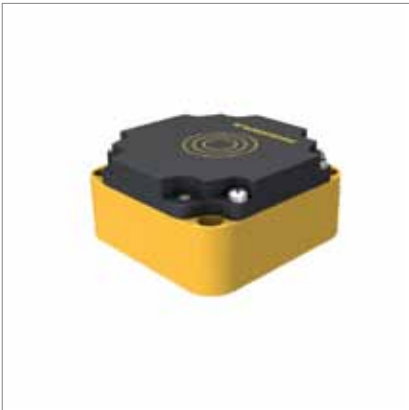
General data

Switching distance	50 mm,	**Housing material**	PBT
Ambient temperature	-25…+70 °C	**Dimensions**	80 x 40.5 x 80 mm
Adjustment	Potentiometer		

Types and data – selection table

Type	Connection	Operating voltage	Output	Operating current [mA]	w	d
NC50-CP80-VP4X2	Terminal chamber	10…65 VDC	, PNP	200, Ⓚ	w073	d406
NC50-CP80-VP4X2-H1141	male, M12 x 1	10…65 VDC	, PNP	200, Ⓚ	w069	d407
NC50-CP80-FZ3X2	Terminal chamber	20…250 VAC	, , 2-wire	–	w074	d406

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