

Plastic cylindrical shape capacitive sensors **CQ20S** series



Features

- ◆ Be able to detect both metal and nonmetal objects;
- ◆ Be able to detect various media via nonmetallic container;
- ◆ Reliable liquid level detecting;



Part number

NPN NO	CQ20SCF10DNO	CQ20SCN15DNO	PNP NO	CQ20SCF10DPO	CQ20SCN15DPO
NPN NC	CQ20SCF10DNC	CQ20SCN15DNC	PNP NC	CQ20SCF10DPC	CQ20SCN15DPC
NPN NO+NC	CQ20SCF10DNR	CQ20SCN15DNR	PNP NO+NC	CQ20SCF10DPR	CQ20SCN15DPR

Technical specifications

Mounting	Flush	Non-flush	Consumption current	≤15mA
Rated distance [Sn]	10mm (adjustable)	15mm (adjustable)	Circuit protection	Short-circuit, overload and reverse polarity
Assured distance [Sa]	0...8mm	0...12mm	Output indicator	Yellow LED
Dimensions	Φ20*80mm	Φ20*80mm	Ambient temperature	-25℃...70℃
Output	NO/NC(depends on part number)		Ambient humidity	35-95%RH
Supply voltage	10...30 VDC		Switching frequency [F]	50 Hz
Standard target	Fe30*30*1t	Fe45*45*1t	Voltage withstand	1000V/AC 50/60Hz 60S
Switch-point drifts [%/Sr]	≤±20%		Insulation resistance	≥50MΩ (500VDC)
Hysteresis range [%/Sr]	3...20%		Vibration resistance	10...50Hz (1.5mm)
Repeat accuracy [R]	≤3%		Degree of protection	IP67
Load current	≤200mA		Housing material	PBT
Residual voltage	≤2.5V		Connection type	2m PVC cable

Dimensions



Wiring diagram

