

Italian Sensors Technology



Application:

photovoltaic panels presence and position detection

CE, CT, C18, C30, CQ50, CQ55 Capacitive Sensors

Proximity Sensors Application note CAT3E001261641

Application note - capacitive models - English - Ed.01/2012





MARKET SECTORS

DESCRIPTION OF THE MARKET SECTOR AND ITS TYPICAL **ACTIVITY**

APPLIED SOLUTION

Solar panel industry

During productions of solar panels it is necessary to detect position or presence of panels. Photoelectric and ultrasonic sensors could have problems in the detection of the panels because of the trasparency and tilt.

M.D. Micro Detectors' Capacitive Sensors can detect the panel (glass+thin metallic layer) without any problems.

SPECIFICATIONS

C18

- DC or AC supply voltage
- High noise immunity
- Shielded and unshielded models Adjustable sensitivity
- Adjustable sensitivity
- Plastic housing

CE

- DC supply voltage
- DC supply voltage - Shielded and unshielded models - Adjustable sensitivity
- Metallic housing
- -Self monitoring models

C30

Cubic

- DC or AC supply voltage
- High noise immunity
- Shielded and unshielded models
- Adjustable sensitivity
- Plastic or metallic housing

CQ50

- DC supply voltage
- High noise immunity
- Adjustable sensitivity

CQ55

- Capacitive water level

Cylindrical

sensor

TECHNICAL

C18 CE СТ C30 **CQ50 CQ55** M18 M30 ø 20 mm M30 7 x 30 x 50 mm 15 x 35 x 55 mm standard shielded 3...8 mm 10 mm 2...16 mm standard unshielded 4...25 mm 3...12 mm long distance shielded 5/6/7/10 mm 15 mm 4...25 mm long distance unshielded 20 mm standard housing miniaturized housing supply voltage output type NPN - NO NPN - NC PNP - NC NPN - NO + NC DECOUT® 4...20 mA -25°C...+80°C -25°C...+70°C -25°C...+70°C -25°C...+80°C -0°C...+60°C -25°C...+80°C **IP67** IP67 IP65 **IP65** IP67 **IP67** PF / stainless steel stainless steel nickel plated brass Noryl PC active head material PΕ I PG PΕ PBT Noryl PC CULUS LISTED (€ c∰us usted (€ (€ ((CUL US LISTED C€ (€

FEATURES

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