

Italian Sensors Technology



Application:

photovoltaic panels presence and position detection

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

Proximity Sensors Application note CAT3E001264101

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
- Shielded and unshielded models Adjustable sensitivity

- DC supply voltage

- 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

Capacitive Sensors

Cylindrical

sensor

C18 CE CT C30 **CQ50 CQ55** M18 M30 15 x 35 x 55 mm M30 ø 20 mm 7 x 30 x 50 mm standard shielded 3...8 mm 10 mm 2...16 mm 3...12 mm 4...25 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 IP67 **IP65** IP65 IP67 PF / stainless steel stainless steel nickel plated brass Noryl active head material PΕ I PG PΕ PBT Noryl PC CUL US LISTED C€ (€ (€ CUL US LISTED C€ (€ CUL US LISTED C€

TECHNICAL FEATURES

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M.D. Micro Detectors S.p.A. con Unico Socio

Strada S. Caterina 235 41122 Modena - Italy

tel. + 39 059 420411 fax + 39 059 253973

info@microdetectors.com