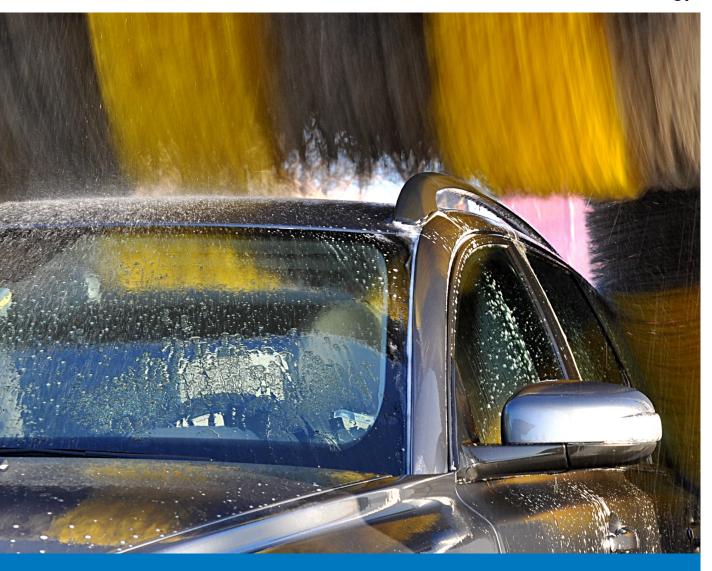


Italian Sensors Technology



Application: soap and waxes level in automatic washing systems

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

Proximity Sensors

Application note CAT3E001262901 Application note - capacitive models - English - Ed.01/2012



MARKET SECTORS

DESCRIPTION OF THE MARKET SECTOR AND ITS TYPICAL ACTIVITY

APPLIED SOLUTION

SPECIFICATIONS

Industrial and private washing systems.

To grant a perfect washing of cars, it is necessessary to check the level of liquids like soaps and waxes In automatic washing systems.

M.D. Micro Detectors capacitive sensors can detect the level of liquids in the plastic reservoirs, allowing operators to substitute them whenever they're finished.

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

CQ50

C18

- DC supply voltage
- High noise immunity
- Adjustable sensitivity

CE

CQ55

sensor

- Capacitive water level

- DC supply voltage

- Metallic housing
- -Self monitoring models

- DC supply voltage
- Shielded and unshielded models Adjustable sensitivity
- High noise immunity

C30

- Shielded and unshielded models

- DC or AC supply voltage

- Adjustable sensitivity
- Plastic or metallic housing

| | | | Capacitive Sensors | | | | | |
|--------------|------------------------|--------------------------|--------------------|-----------------|---------------------|----------------------|----------------|--|
| | | | Cylindrical | | | | Cubic | |
| | | | C18 | CE | СТ | C30 | CQ50 | CQ55 |
| | | | 3 | | C.N. | Y | | A Carlo Carl |
| 9 | dimensions | | M18 | ø 20 mm | M30 | M30 | 7 x 30 x 50 mm | 15 x 35 x 55 mm |
| | standard shielded | | 38 mm | 10 mm | | 216 mm | | |
| 4 | standard unshielded | d | 312 mm | | | 425 mm | | |
| | long distance shielded | | _ | | 15 mm | | 5/6/7/10 mm | 425 mm |
| ľ | long distance unshi | lelded | _ | _ | 20 mm | ! | | |
| | standard housing | | • | • | • | • | • | • |
| | short housing | | _ | | <u> </u> | _ | | |
| | miniaturized housin | ng | | | | [] | | |
| s | supply voltage | Vdc Vac | • | • | • | • | • | • |
| | output type | NPN - NO | _ | | • | | • | |
| | | NPN - NC | — | _ | • | — · | • | — |
| | | PNP - NO | | - | • | _ | • | |
| | | PNP - NC | | ' | • | <u> </u> | <u> </u> | |
| | | PNP - NO + NC | • | | | • | | • |
| . A . | | NPN - NO + NC DECOUT® | • | • | | • | · | • |
| | | SCR | • | _ | | | _ | |
| | | 010 V | | | L / | | | |
| | | 420 mA | _ | — | | | — | — |
| | temperature range | | -25°C+80°C | -25°C+70°C | -25°C+70°C | -25°C+80°C | -0°C+60°C | -25°C+80°C |
| V | protection degree | | IP67 | IP65 | IP65 | IP67 | IP67 | IP67 |
| Y | housing material | | PE | stainless steel | nickel plated brass | PE / stainless steel | Noryl | PC |
| | active head material | | PE | LPG | PBT | PE | Noryl | PC |
| 1 | output | cable | • | • | • | • | • | • |
| | | M8 plug | — | — | _ | - | - | _ |
| | | M12 plug | • | • | • | • | | • |
| | ATEX | | | | | | | |
| 9 | other certifications | | c | CE | CE | | CE | CUUUS LISTED CE |

TECHNICAL FEATURES

Copyright:

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

Strada S. Caterina 235 41122 Modena - Italy

tel. + 39 059 420411 fax + 39 059 253973 info@microdetectors.com www.microdetectors.com