

# CAPACITIVE SENSORS SC30S ATEX series

AECO®

CE

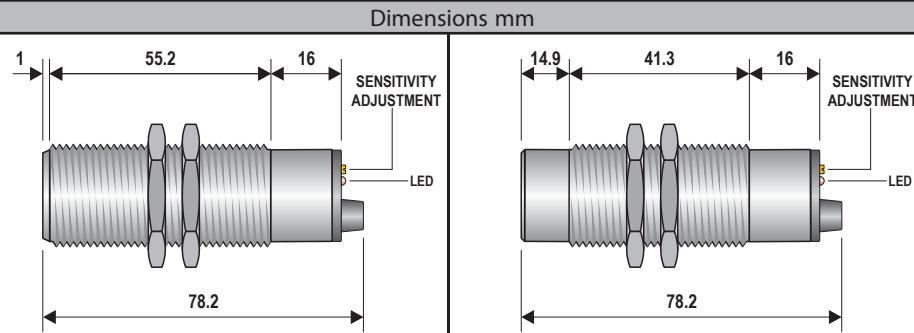
- PLASTIC CYLINDRICAL HOUSING M30x1,5 (SC30SP)
- METALLIC CYLINDRICAL HOUSING M30x1,5 (SC30SM)
- 2 WIRES + EARTH D.C. / A.C. - SHIELDED CABLE
- IN CONFORMITY WITH: - ATEX Directive 94/9/CE GROUP "II" CATEGORY "3" DUSTY ATMOSPHERES "D" ( ZONE 22 )
  - Electromagnetic compatibility directive 89/336 CE - Low Voltage directive 73/23 CE
  - Product norm EN60947-5-2

TS = EMBEDDABLE

PS = NOT EMBEDDABLE

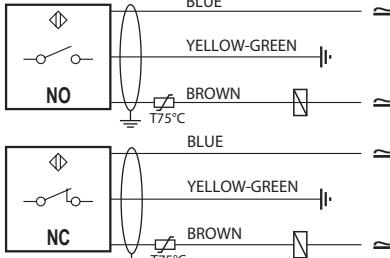
SAFETY FUNCTION FOR TEMPERATURES >75°C

The ATEX approved capacitive sensors are equipped with a device that irreversible interrupts functionality when the maximum temperature limit established by the norm has been exceeded and also in relation to the values printed on sensor label. This type of function makes the equipment safer in potentially explosive environments.



| TECHNICAL CHARACTERISTICS                   | NO                  | Dimensions mm  |                      |
|---|---------------------|--|----------------------|
|   |                     | TS   | PS                   |
|   | SC30SP - A20 NO AD3 | SC30SP - AE25 NO AD3                                       | SC30SP - AE25 NO AD3 |
|   | SC30SM - A20 NO AD3 | SC30SM - AE25 NO AD3                                       | SC30SM - AE25 NO AD3 |
|   | SC30SP - A20 NC AD3 | SC30SP - AE25 NC AD3                                       | SC30SP - AE25 NC AD3 |
|   | SC30SM - A20 NC AD3 | SC30SM - AE25 NC AD3                                       | SC30SM - AE25 NC AD3 |
| Switching distance (Sn) adjustable          | mm                  | 0 ÷ 20   | 0 ÷ 25               |
| Continuous voltage (res. ripple $\leq$ 10%) | V                   | 20 ÷ 250 (Absolute maximum ratings ripple included)        |                      |
| Alternating voltage 50-60 Hz                | V                   | 20 ÷ 250 (Absolute maximum ratings)                        |                      |
| Hysteresis                                  | %Sn                 | $\leq$ 20  |                      |
| Switching frequency                         | Hz                  | 10   |                      |
| Repeatability (at constant temperature)     | %Sn                 | < 5  |                      |
| Max output current                          | mA                  | 500  |                      |
| Min output current                          | mA                  | 10 (Min. release current)                                  |                      |
| Max peak current for 20 mS                  | A                   | 1.5  |                      |
| Residual current                            | mA                  | $\leq$ 2   |                      |
| Voltage drop (output ON)                    | V                   | < 4  |                      |
| Short circuit protection                    |                     | Incorporated   |                      |
| Led   |                     | Incorporated   |                      |
| Operating temperature range                 | °C                  | -25 ÷ +70  |                      |
| Storage temperature range                   | °C                  | -25 ÷ +70  |                      |
| Max temperature on the surface              | °C                  | + 80   |                      |
| Additional temperature limit system         |                     | Non-reactable at + 75°C intervention                       |                      |
| IP rating                                   | IP                  | 67   |                      |
| Housing                                     |                     | Plastic (Grey polycarbonate) or Metallic (Nickelled brass) |                      |
| Cable PVC                                   | 3m                  | 3 x 0.35 mm <sup>2</sup> shielded                          |                      |
| Marking                                     |                     | II 3D IP67 T=80°C  |                      |

## WIRING DIAGRAMS



N.B.: 5 - 10m cable version are available upon request.

## INSTRUCTIONS FOR CORRECT INSTALLATION

