



# AMPLIFIED CAPACITIVE SENSORS



Ø 30

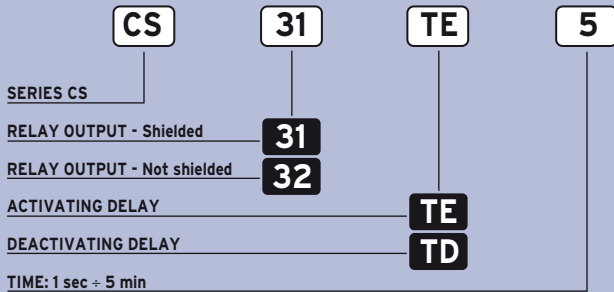
18÷230 V AC/DC WITH TIMER RELAY OUTPUT

- Metal housing
- Relay SPDT output: 3A 30VAC, 1A 220VAC
- Models with 9-turn pot
- Adjustable range
- High noise immunity
- High temperature stability

CS Series

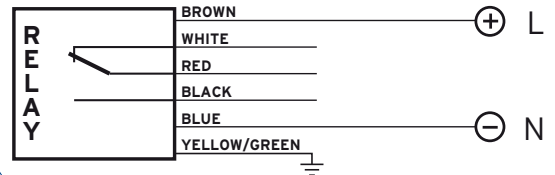


## IDENTIFICATION CODE



	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	1 ÷ 20 mm	2 ÷ 30 mm
NOMINAL VOLTAGE	18 ÷ 230 VAC-DC (-15/+10%)	
NET FREQUENCY	50 ÷ 60 Hz	
HYSTERESIS	Depending on the sensing distance	
OUTPUT	Relay (10 x106 ops. min.)	
MAX. CURRENT OUTPUT	3A 30VAC - 1A 220VAC (90 W, 360 VA)	
ABSORPTION	2.5 VA	
OPERATION LED	Yellow	
SENSITIVITY ADJUSTMENT	Trimmer 9 turns	
START UP DELAY	≤ 300 ms	
SWITCHING FREQUENCY	10 Hz	
REPEATABILITY (at even temperature)	≤ 5%	
TEMPERATURE LIMITS	- 25 ÷ +70 °C	
PROTECTION DEGREE	IP 65	
CABLE LENGTH	2 m	
CABLE SECTION	6 x 0.30 mm <sup>2</sup>	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT (Approximately)	250 g	

## WIRING DIAGRAMS

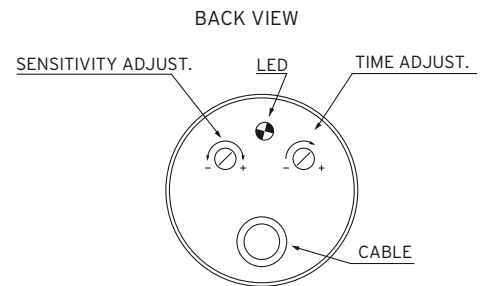


## TIME DELAY

To regulate the sensitivity of these models, reset the time delay trimmer before.

The available range of delay is :

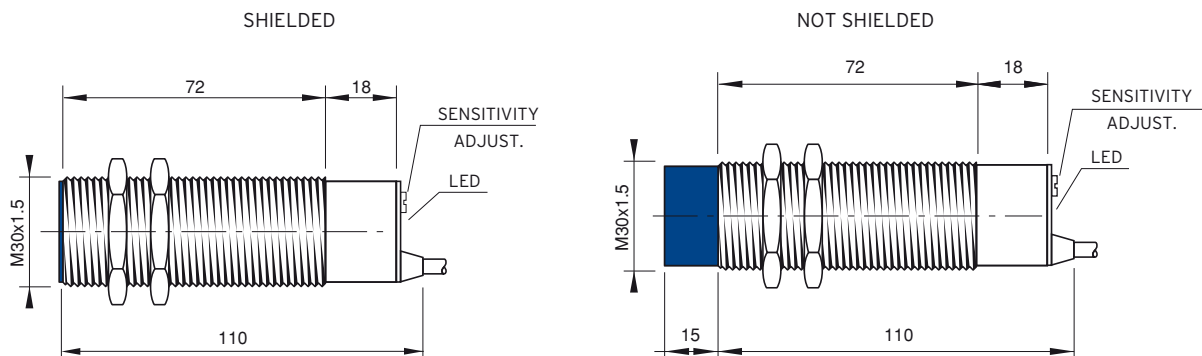
1 SEC. ÷ 5 MIN.



## SENSITIVITY ADJUSTMENT

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the kind of material to detect and on its dimensions (see table about reduction factors). The distance could change according to temperature variations. To increase the sensitivity twist the trimmer clock-wise, to decrease do it anti clock-wise.

## DIMENSIONS (mm)



Note: the front part in blue refers to not shielded models