

## AMPLIFIED CAPACITIVE SENSORS

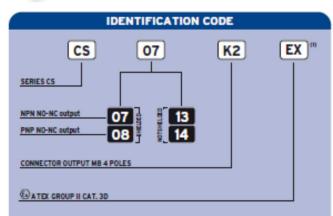
### 12÷30 V DC - 4 WIRES NPN OR PNP OUTPUT

- Metal housing
  Adjustable range, 9-turn trimmer
  Nickel-plated brass
- · High noise immunity
- · High temperature stability

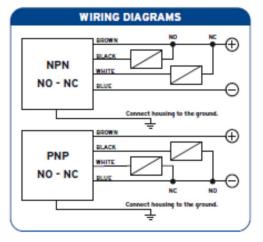








NOMINAL SWITCHING DISTANCE (Sn)	1+5 mm	1÷10 mm		
NOMINAL VOLTAGE	12 ÷ 30 VDC (-15/+10%)			
RESIDUAL RIPPLE	≤10%			
Hysteresis	Depending on the sensing distance			
MAX. CURRENT OUTPUT	200 mA			
ABSORPTION AT 24 VDC	≤20 mA			
VOLTAGE DROP (Sensor ON)	≤1.8 V (I = 100 mÅ)			
OPERATION LED	Yellow			
SENSITIVITY ADJUSTMENT	Trimmer 9 turns			
SWITCHING FREQUENCY	10 Hz			
START UP DELAY	≤ 100 ms			
REPEATABILITY (at even temperature)	≤ 5%			
SHORT CIRCUIT PROTECTION	Present			
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads			
TEMPERATURE LIMITS	-25 ÷+70 °C			
PROTECTION DEGREE	IP67			
CABLE LENGTH	2 m			
CABLE SECTION	4 x 0.25 mm <sup>2</sup>			
HOUSING MATERIAL	Nickel-pl	Nickel-plated brass		
WEIGHT - cable output -	16	160 g		
WEIGHT - K2 connector output -	120 g			



# CONNECTION WITH CONNECTOR M8 (K2)



View of quadripole male connector

### CONTACTS CONFIGURATION

Output	Contacts numbers				
	1	2	3	4	
NPM/PNP NO+NC	+	MC	-	ND	

### 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.

