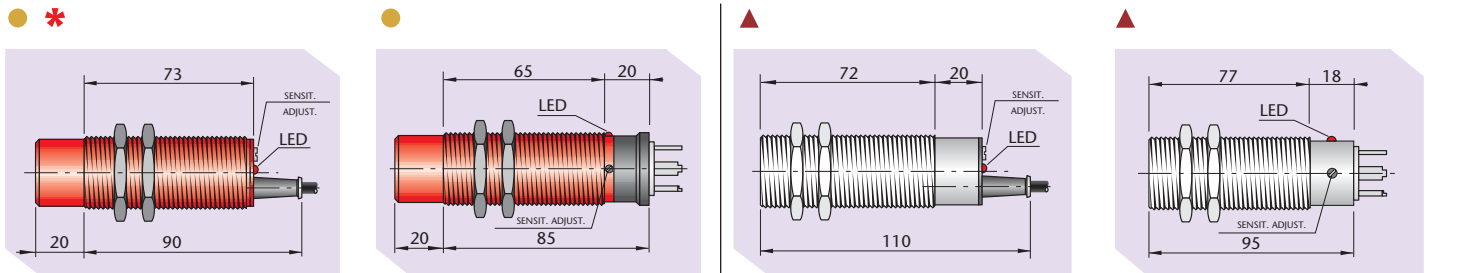


# Capacitive Sensors M30 x 1.5



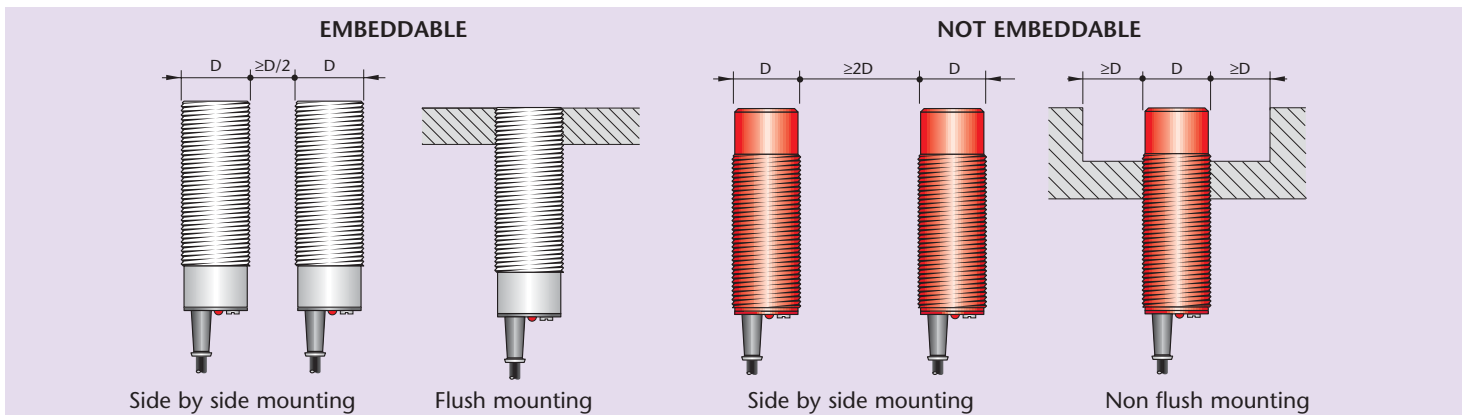
CYLINDRICAL HOUSING PLASTIC OR METALLIC  
4 WIRES D.C. - VERSION-C

\* Types available with protection against electrostatic charges up to 27KV.



SC30P - CE25 NPN NO + NC*	SC30P - CE25 NPN NO + NC K	SC30M - C20 NPN NO + NC	SC30M - C20 NPN NO + NC K
SC30P - CE25 PNP NO + NC*	SC30P - CE25 PNP NO + NC K	SC30M - C20 PNP NO + NC	SC30M - C20 PNP NO + NC K
0 ÷ 25	0 ÷ 25	0 ÷ 20	0 ÷ 20
10 ÷ 55			
In relation to Sn			
10			
< 1			
300			
≤ 10			
< 1.8			
Incorporated			
Incorporated			
- 20 ÷ + 70			
67	65	67	65
Red plastic (Makrolon)		Nickelled brass	
4 x 0.25 mm <sup>2</sup>		4 x 0.25 mm <sup>2</sup>	
K (mod. 12)		K (mod. 12)	
Possible mounting (SCM-P)		Possible mounting (SCM-K)	

## INSTRUCTIONS FOR CORRECT INSTALLATION



# Capacitive Sensors M30 x 1.5

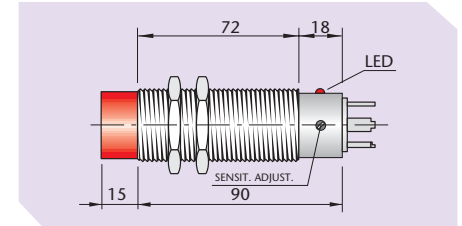
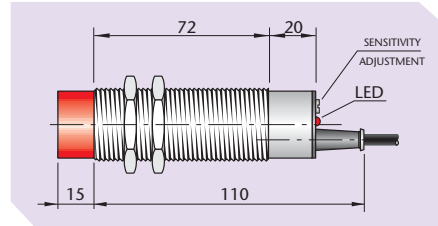


CYLINDRICAL HOUSING METALLIC  
4 WIRES D.C.  
VERSION-C

- ▲ **EMBEDDABLE** (FLUSH MOUNTING)
- **NOT EMBEDDABLE** (NON FLUSH MOUNTING)

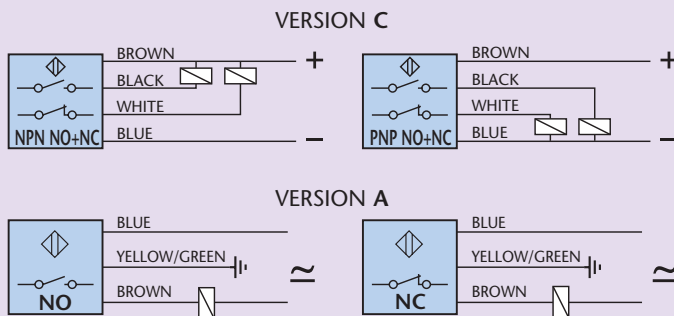
## TECHNICAL CHARACTERISTICS

Dimensions mm



AMPLIFIED 4 WIRES D.C. ANTIPIHASE	NPN	NO+NC	SC30M - CE25 NPN NO + NC	SC30M - CE25 NPN NO + NC K
	PNP	NO+NC	SC30M - CE25 PNP NO + NC	SC30M - CE25 PNP NO + NC K
AMPLIFIED 2 WIRES A.C./D.C.		NO		
		NC		
Switching distance (Sn) adjustable	mm	0 ÷ 25		0 ÷ 25
Continuous voltage (residual ripple ≤10%)	V	10 ÷ 55		
Alternating voltage 50÷60 Hz	V			
Hysteresis (%Sn)	mm	In relation to Sn		
Switching frequency	Hz	10		
Repeatability (at constant temperature)	mm	< 1		
Max output current	mA	300		
Min output current	mA			
Max peak current for 20 ms	A			
Absorption at 24Vdc	mA	≤ 10		
Residual current	mA			
Voltage drop (sensor ON)	V	< 1.8		
Short circuit protection		Incorporated		
Led		Incorporated		
Temperature limits	°C	- 20 ÷ + 70		
IP rating	IP	67		65
Housing		Nickelled brass		
Cable PVC	2m	4 x 0.25 mm <sup>2</sup>		
Connector plug		H (on request)		K (type 12)
Protection housing				Possible mounting (SCM-K)

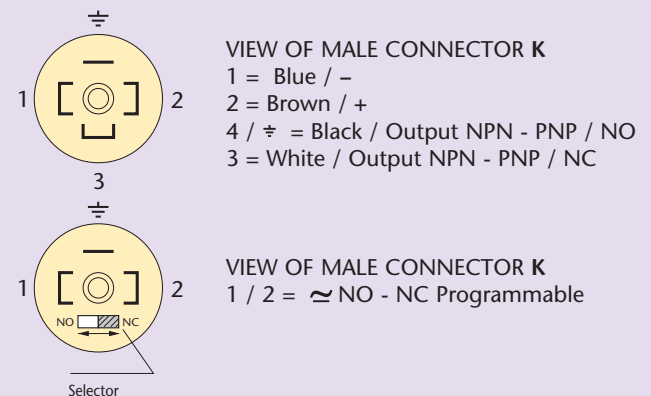
## WIRING DIAGRAMS



N.B.: Upon request cable for sensors with different lengths  
3.5 - 5 - 7.5 - 10 metres is available.

## CONNECTION WITH K PLUG

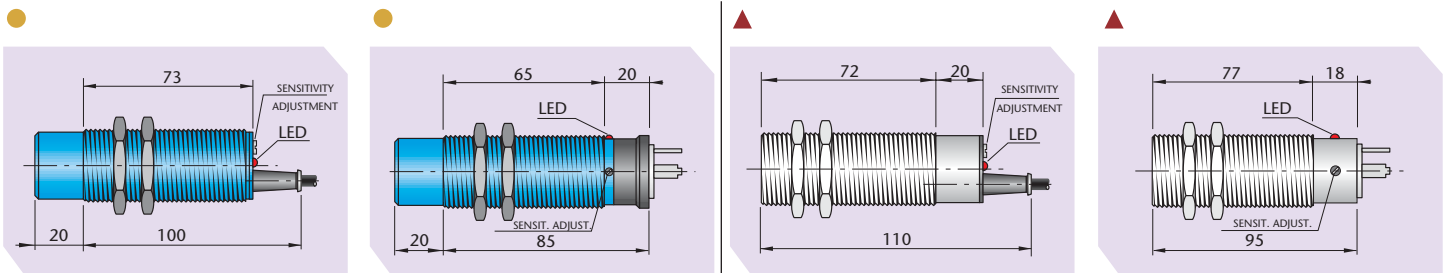
FOR CONNECTORS TYPE 12 (PAGE 85)



# Capacitive Sensors M30 x 1.5

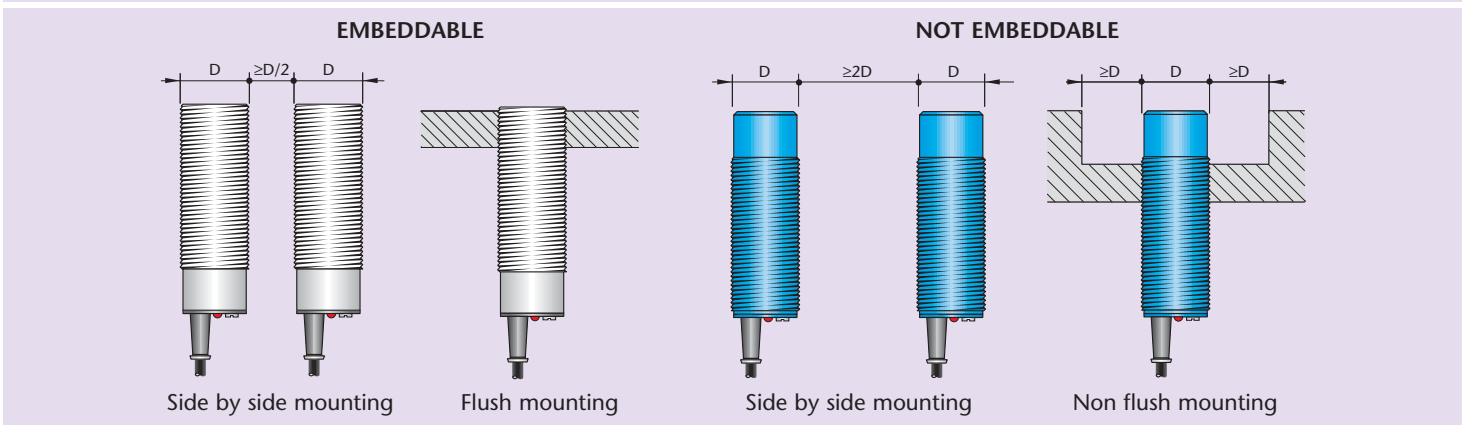


CYLINDRICAL HOUSING PLASTIC OR METALLIC  
2 WIRES A.C./D.C.  
VERSION-A



SC30P - AE25 NO*	SC30P - AE25 NO/NC K	SC30M - A20 NO*	SC30M - A20 NO/NC K
SC30P - AE25 NC*	PROGRAMMABLE	SC30M - A20 NC*	PROGRAMMABLE
0 ÷ 25	0 ÷ 25	0 ÷ 20	0 ÷ 20
20 ÷ 250			
20 ÷ 250			
In relation to Sn			
10			
< 1			
500			
10 (Min. release current)			
1.5			
≤ 2			
< 6			
Incorporated (Up to 50V in d.c.)			
Incorporated			
- 20 ÷ + 70			
67	65	67	65
Blue plastic makrolon		Nickelled brass	
3 x 0.50 mm <sup>2</sup>		3 x 0.50 mm <sup>2</sup>	
K (type 12)		K (type 12)	
Possible mounting (SCM-P)		Possible mounting (SCM-K)	

## INSTRUCTIONS FOR CORRECT INSTALLATION



\* Models with NO/NC programmable output are available on request.

# Capacitive Sensors M30 x 1.5

CYLINDRICAL HOUSING METALLIC  
2 WIRES A.C./D.C.  
VERSION-A

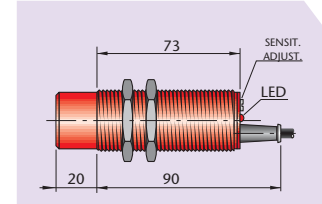
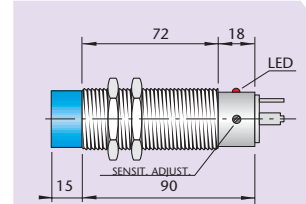
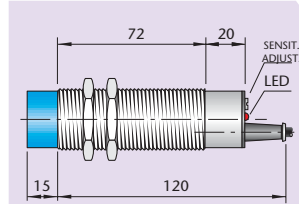
CYLINDRICAL HOUSING PLASTIC  
RELAY OUTPUT  
VERSION-R



● **NOT EMBEDDABLE**  
(NON FLUSH MOUNTING)

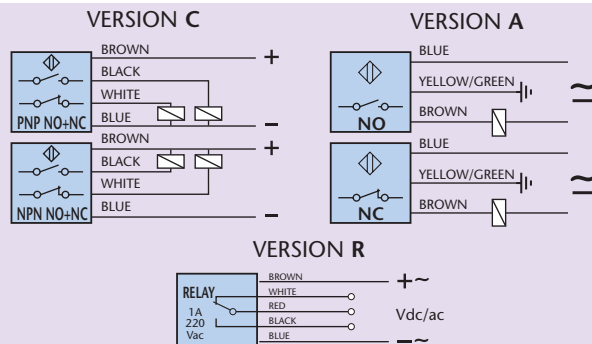
## TECHNICAL CHARACTERISTICS

Dimensions mm

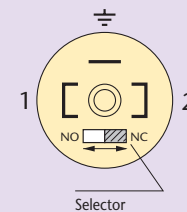


AMPLIFIED 4 WIRES D.C. ANTIPHASE	NPN	NO+NC			
	PNP	NO+NC			
AMPLIFIED 2 WIRES A.C./D.C.		NO	<b>SC30M - AE25 NO*</b>	<b>SC30M - AE25 NO/NC K</b>	<b>SC30P - RE 25</b>
		NC	<b>SC30M - AE25 NC*</b>	<b>PROGRAMMABLE</b>	<b>RELAY CHANGEOVER</b>
Switching distance (Sn) adjustable	mm		0 ÷ 25		0 ÷ 25
Continuous voltage (residual ripple ≤10%)	V		20 ÷ 250		18 ÷ 50
Alternating voltage 50÷60 Hz	V		20 ÷ 250		18 ÷ 240
Hysteresis (%Sn)	mm		In relation to Sn		In relation to Sn
Switching frequency	Hz		10		10
Repeatability (at constant temperature)	mm		< 1		< 1
Max output current	mA		500		Changeover 1A - 220Vac
Min output current	mA		10 (Min. release current)		
Max peak current for 20 ms	A		1.5		
Absorption	mA				< 20 Relay on
Residual current	mA		≤ 2		
Voltage drop (sensor ON)	V		< 6		
Short circuit protection			Incorporated (Up to 50V in d.c.)		
Led			Incorporated		
Temperature limits	°C		- 20 ÷ + 70		
IP rating	IP		67	65	67
Housing			Nickelled brass		
Cable PVC	2m		3 x 0.50 mm <sup>2</sup>		5 x 0.35 mm <sup>2</sup>
Connector plug				K (type 12)	
Protection housing				Possible mounting (SCM-K)	Possible mounting (SCM-P)

## WIRING DIAGRAMS



## CONNECTION WITH K PLUG FOR CONNECTOR TYPE 12 (PAGE 85)



VIEW OF MALE CONNECTOR K  
1 / 2 =  $\approx$  NO - NC Programmable

N.B.: Upon request cable for sensors with different lengths  
3.5 - 5 - 7.5 - 10 metres is available.

\* Models with NO/NC programmable output are available on request.