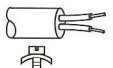
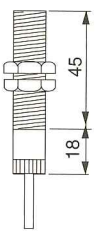
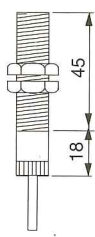
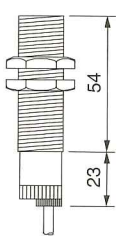




# Sn: 0.2...60mm Inductive proximity sensors

Cylindrical and block type, forms A, C and D  
Analogue output models

Connection :  cable (pre-wired) L = 2m.  
screw clamp terminals

Sensors flush-mountable in metal (screened)		Sensors not flush-mountable in metal (unscreened)	
<b>M:</b> Metal case <b>P:</b> Plastic case	<b>Dimensions in mm.</b> M 12 x 1 	<b>Dimensions in mm.</b> M 12 x 1 	<b>Dimensions in mm.</b> M 18 x 1 
	<b>References</b> M	P	P
<b>DC, 3 wire type</b>  3 wire connection : 0...10 mA 2 wire connection : 4...14 mA  3 wire connection : 0...16 mA 2 wire connection : 4...20 mA			XSP-H08762
	XSA-H02362	XSP-H04362	XSP-H08362

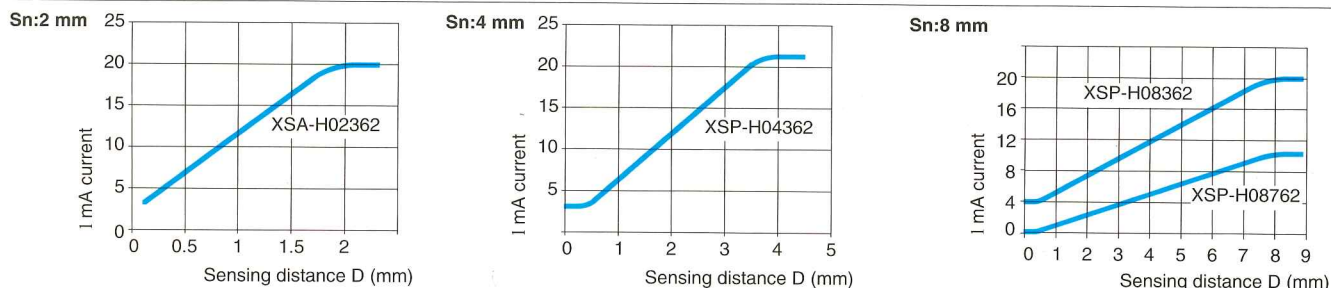
## Mechanical characteristics

Connection mode	 3x0.2mm <sup>2</sup>		 3x0.34mm <sup>2</sup>
Degree of protection	IP 67		
Nominal sensing distance Sn	0.2...2 mm	0.4...4 mm	0.8...8 mm
Operating zone	0.2...2 mm	0.4...4 mm	0.8...8 mm
Ambient air temperature	- 25 to +70°C		

## Electrical characteristics

Supply voltage	24 V DC	24...48 V DC	24 V DC
Voltage limit (including ripple)	19...30 V DC	19...58 V DC	19...30 V DC
Current consumption, no load	4 mA		
Output current stability - 25 to + 70°C	≤ 10%		

## Output curves



**Note:** The above curves have been obtained using a standard A37 mild steel target object. The versions XS-...3\*\* are 2 wire connected and versions XS-...7\*\* are 3 wire connected.

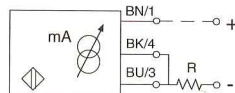
## Mounting precautions

### Minimum distances

Refer to the minimum distances for the corresponding cylindrical or block type sensor.

## Wiring diagram

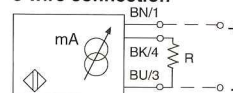
### 2 wire connection



Output current	Value of R*
24V 4...14mA	≤ 640 Ω
4...20mA	≤ 450 Ω
48V 4...14mA	≤ 2350 Ω

\* R= load impedance

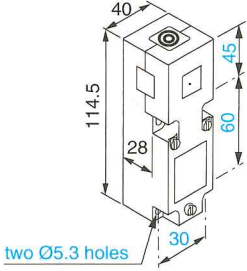
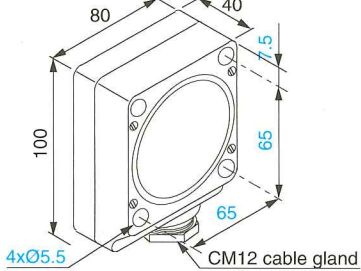
### 3 wire connection




Output current	Value of R*
24V 0...10mA	≤ 1800 Ω
0...16mA	≤ 1125 Ω
48V 0...10mA	≤ 4200 Ω

for special applications.

Sn: 0.2...60mm

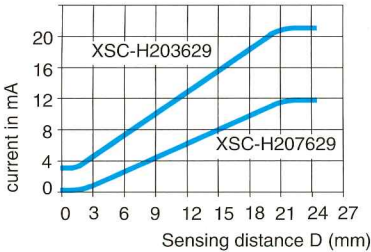
 P two Ø5.3 holes	 P 4xØ5.5 CM12 cable gland
XSC-H207629	XSD-H607629
XSC-H203629	XSD-H603629

 2x1.5mm <sup>2</sup>	
IP 67	
2...20 mm	6...60 mm
2...20 mm	6...60 mm
- 25 to +70°C	

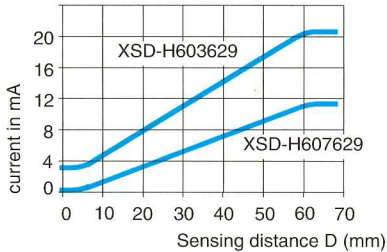
24...48 V DC	24 V DC	24...48 V DC	24 V DC
19...58 V DC	19...30 V DC	19...58 V DC	19...30 V DC
4 mA			
≤ 10%			

Output curves

Sn:20 mm

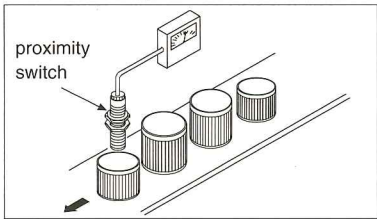


Sn:60 mm



**Note:** The above curves have been obtained using a standard A37 mild steel target object. The versions XS-...3 are 2 wire connected and versions XS-...7 are 3 wire connected.

Example: Sorting parts



These analogue proximity sensors are solid state sensors, designed for monitoring displacements. They have a wide number of applications, but are particularly suitable for :

- deformation or displacement monitoring
- vibration amplitude and frequency monitoring
- control of dimensional tolerances
- position control
- monitoring of concentricity and eccentricity.

Principle of operation

The operating principle of the sensor is that of a damped oscillator. The degree of damping will depend on the distance of the target object from the sensing face. The sensor will sense the distance and produce an output current with a value directly proportional to this distance.