

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation. All connections should be inspected periodically to ensure correct tightness.

**DO NOT USE POWER TOOLS ON THESE PRODUCTS**

**Europa Helpline: email: [technical@europacomponents.com](mailto:technical@europacomponents.com) / tel: 01582 692 444**

Europa House, Airport Way, Luton, Beds, LU2 9NH Tel: 01582 692 440

e-mail: [sales@europacomponents.com](mailto:sales@europacomponents.com) website: [www.europacomponents.com](http://www.europacomponents.com)



## Inductive Proximity Sensors

### Description

- Product specific IC enables consistent high performance
- Surge, reverse polarity and short-circuit protection
- Housing material : Nickel Plated Brass
- Protection degree : IP67 (IEC)
- Power supply range(10-30VDC)

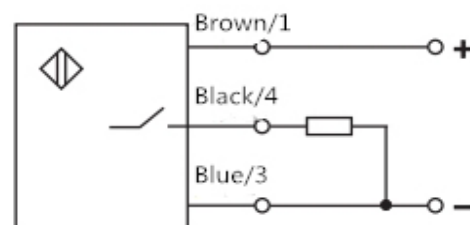
Our inductive sensors are available in M8, M12, M18 and M30. Operating from a 10-30V DC supply and incorporating a "target-sensed" LED indicator, the PNP N/O output stage has a maximum load current of 200mA.

Available in both shielded (flushed fitting) and non-shielded (non-flushed fitting).

Flush sensors can be mounted within a metal bracket or directly into the machine without the risk of the metal causing the sensor to false trigger. Flush sensors come with a shield that allows the sensor to only radiate from the front.

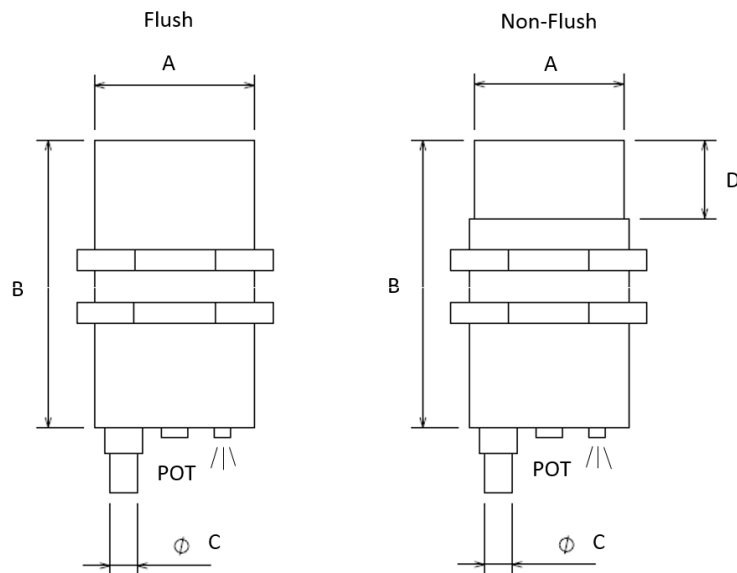
Non-flush sensors do not have a shield around the front so the radiation pattern is larger around the sensor. Unlike Flush sensors, it cannot be mounted flush on a metal bracket as the metal will cause the sensor to actuate.

Suitable for a wide range of applications detecting ferrous targets (such as mild steel). Applications including metal cap detecting in bottling plants, CNC machines, counting and detection operations in canning plants and gear-tooth detection for motion monitoring and a variety of automated packaging



PNP NO

Part Number	Mounting	A (Thread Size)	B (mm)	C (mm)	D (mm)	Rated Operating Distance (Sn)[mm]	Frequency
ECM8I-WPNO10-30V1-F	Flush	M8x1	45	3	-	1	1kHz
ECM8I-WPNO10-30V2-NF	Non-Flush	M8x1	45	3	4	2	1kHz
ECM12I-WPNO10-30V2-F	Flush	M12x1	50	4	-	2	1kHz
ECM12I-WPNO10-30V4-NF	Non-Flush	M12x1	50	4	8	4	1kHz
ECM18I-WPNO10-30V5-F	Flush	M18x1	55	5	-	5	1kHz
ECM18I-WPNO10-30V8-NF	Non-Flush	M18x1	55	5	8	8	1kHz
ECM30I-WPNO10-30V10-F	Flush	M30x1	55	5	-	10	1kHz
ECM30I-WPNO10-30V15-NF	Non-Flush	M30x1	55	5	15	15	1kHz



Output	PNP N/O
Hysteresis[%/Sr]	3...20%
Temperature drift	≤±10%
Repeat accuracy	≤3%
Load current[mA]	≤200mA
Consumption current[mA]	≤10mA
Residual voltage	≤2.5V
Protection circuit	Surge, overload, reverse polarity, short-circuit
Indicator	Yellow LED
Ambient temp.[°C]	-25...70°C
Ambient RH	35...95%
Protection degree	IP67
Housing material	Nickel Plated Brass
Cable Length	2m