



Digitized Automation for a Changing World

Delta Inductive Proximity Sensor ISE Series



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 **DELTA**
Smarter. Greener. Together.

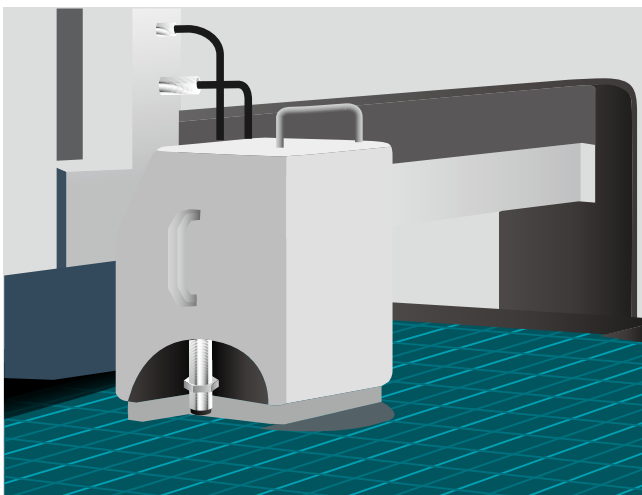
Inductive Proximity Sensor ISE

Senses magnetic substances for positioning, counting, and presence / absence detection, applicable to all industries

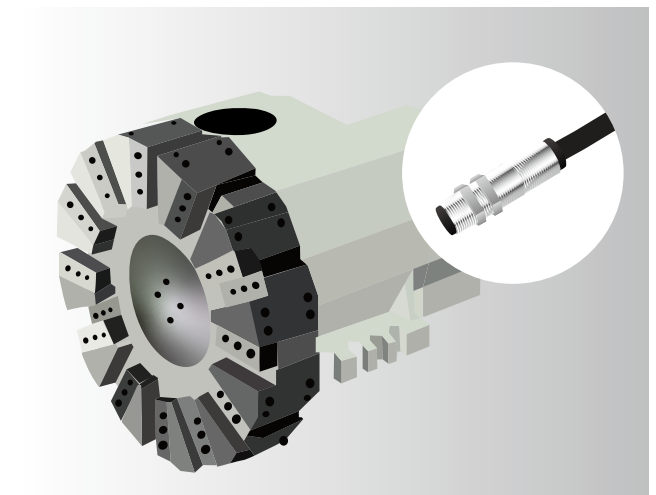
- Nickel coated brass / stainless steel
- Presence / absence detection of magnetic substance
- IP67
- CE certification
- Reverse voltage protection (RVP)



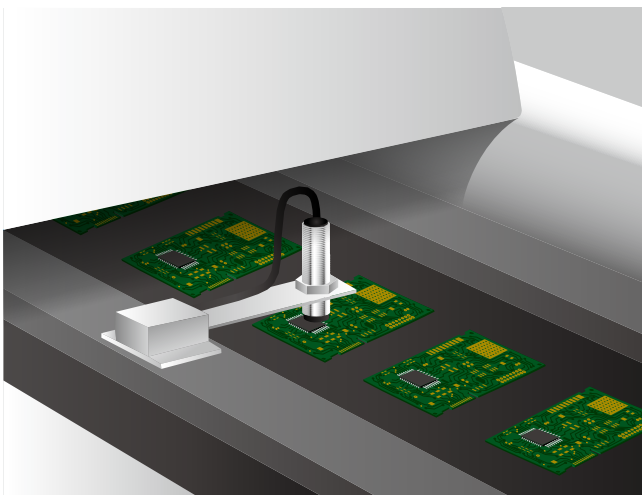
Applications



Vertical adjustment for high-speed mobile platform



Turret tool positioning



PCB solder inspection



Can-counting for the food industry

Cable Type Specifications

Standard Distance

Model	ISE-E0815-B__B2*	ISE-E1202-B__B2*	ISE-E1805-B__B2*	ISE-E3010-B__B2*	ISE-N0802-B__B2*	ISE-N1204-B__B2*	ISE-N1808-B__B2*	ISE-N3015-B__B2*
Type	Isolation				Non-isolation			
Size	M 8	M 12	M 18	M 30	M 8	M 12	M 18	M 30
Sensing Distance	1.5mm ± 10 %	2mm ± 10 %	5mm ± 10 %	10mm ± 10 %	2mm ± 10 %	4mm ± 10 %	8mm ± 10 %	15mm ± 10 %
Case Material	Stainless	Nickel coated brass			Stainless	Nickel coated brass		
Operating Voltage	12~24 V _{DC} ± 10 %							
Residual Voltage	<2.0 V							
Consuming Current	150 mA							
Max. Load Current	< 10 mA							
Leakage Current	<0.01 mA							
Response Frequency	2 KHz	1 KHz		300 Hz	1 KHz	800 Hz	500 Hz	150 Hz
Repeatability	< 1.0 % (Sr)							
Hysteresis	< 15 % (Sr)							
Sensing Surface	PBT							
Operating Temperature	-25~+75 °C							
Circuit Protection	Short-circuit protection							
Rating	IP67							

* **Note:** Customers can choose from NPN normal open: NO, NPN normal close: NC, PNP normal open: PO, PNP normal close: PC, depending on the requirements

Extended Distance

Model	ISE-E0802-B__B2*	ISE-E1204-B__B2*	ISE-E1808-B__B2*	ISE-E3016-B__B2*	ISE-N0804-B__B2*	ISE-N1208-B__B2*	ISE-N1816-B__B2*	ISE-N3025-B__B2*
Type	Isolation				Non-isolation			
Size	M8	M12	M18	M30	M8	M12	M18	M30
Sensing Distance	2mm ± 10 %	4mm ± 10 %	8mm ± 10 %	16mm ± 10 %	4mm ± 10 %	8mm ± 10 %	16mm ± 10 %	25mm ± 10 %
Case Material	Stainless	Nickel coated brass			Stainless	Nickel coated brass		
Operating Voltage	12~24V _{DC} ± 10 %							
Residual Voltage	<2.0V							
Consuming Current	150mA							
Max. Load Current	<10mA							
Leakage Current	<0.01mA							
Response Frequency	1KHz	800Hz	500Hz	150Hz	800Hz	500Hz	150Hz	100Hz
Repeatability	<1.0 % (Sr)	<5.0 % (Sr)	<1.0 % (Sr)		<5.0 % (Sr)		<1.0 % (Sr)	
Hysteresis	<15 % (Sr)							
Sensing Surface	PBT							
Operating Temperature	-25~+75℃							
Circuit Protection	Short-circuit protection							
Rating	IP67							

* **Note:** Customers can choose from NPN normal open: NO, NPN normal close: NC, PNP normal open: PO, PNP normal close: PC, depending on the requirements

Connector Type Specifications

Standard Distance

Model	ISE-E0815-B__BA*	ISE-E1202-B__BA*	ISE-E1805-B__BA*	ISE-E3010-B__BA*	ISE-N0802-B__BA*	ISE-N1204-B__BA*	ISE-N1808-B__BA*	ISE-N3015-B__BA*
Mounting	Isolation				Non-isolation			
Size	M 8	M 12	M 18	M 30	M 8	M 12	M 18	M 30
Sensing Distance	1.5mm ± 10 %	2mm ± 10 %	5mm ± 10 %	10mm ± 10 %	2mm ± 10 %	4mm ± 10 %	8mm ± 10 %	15mm ± 10 %
Case Material	Stainless	Nickel coated brass			Stainless	Nickel coated brass		
Operating Voltage	12~24 V _{DC} ± 10 %							
Residual Voltage	< 1.5V							
Consuming Current	150mA							
Max. Load Current	< 10mA							
Leakage Current	< 0.01mA							
Response Frequency	2 KHz		1 KHz	300Hz	2 KHz	1KHz	500 Hz	150 Hz
Repeatability	< 1.0 % (Sr)							
Hysteresis	< 15 % (Sr)							
Sensing Surface	PBT							
Operating Temperature	-25~+ 75 °C							
Circuit Protection	Short-circuit protection							
Rating	IP67							

* **Note:** Customers can choose from NPN normal open: NO, NPN normal close: NC, PNP normal open: PO, PNP normal close: PC, depending on the requirements

Extended Distance

Model	ISE-E0802-B__BA*	ISE-E1204-B__BA*	ISE-EE1808-B__BA*	ISE-E3016-B__BA*	ISE-N0804-B__BA*	ISE-N1208-B__BA*	ISE-N1816-B__BA*	ISE-N3025-B__BA*
Mounting	Isolation				Non-isolation			
Size	M 8	M 12	M 18	M 30	M 8	M 12	M 18	M 30
Sensing Distance	2 mm ± 10 %	4 mm ± 10 %	8 mm ± 10 %	16 mm ± 10 %	4 mm ± 10 %	8 mm ± 10 %	16 mm ± 10 %	25 mm ± 10 %
Case Material	Stainless	Nickel coated brass			Stainless	Nickel coated brass		
Operating Voltage	12~24 V _{DC} ± 10 %							
Residual Voltage	< 1.5V							
Consuming Current	150mA							
Max. Load Current	< 10 mA							
Leakage Current	<0.01 mA							
Response Frequency	2 KHz	1 KHz		500Hz	1 KHz	500Hz	150 Hz	100 Hz
Repeatability	< 1.0 % (Sr)							
Hysteresis	< 15 % (Sr)							
Sensing Surface	PBT							
Operating Temperature	-25~+ 75 °C							
Circuit Protection	Short-circuit protection							
Rating	IP67							

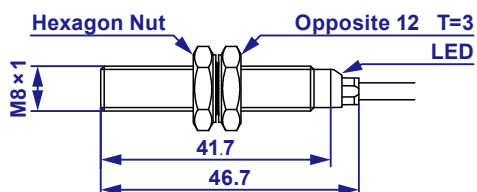
* **Note:** Customers can choose from NPN normal open: NO, NPN normal close: NC, PNP normal open: PO, PNP normal close: PC, depending on the requirements

Dimensions: Cable Type (Standard/Extended Distance)

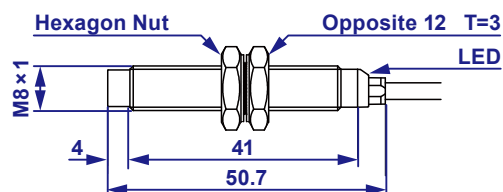
Unit: mm

M8

ISE-E0815-B__B2/
ISE-E0802-B__B2

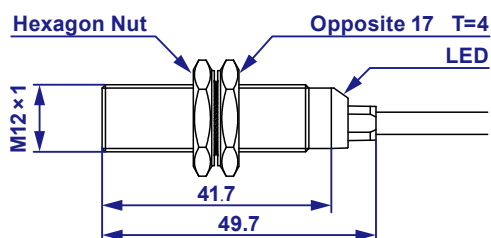


ISE-N0802-B__B2/
ISE-N0804-B__B2

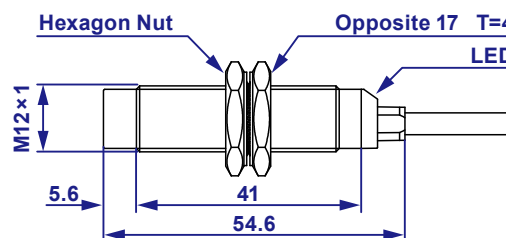


M12

ISE-E1202-B__B2/
ISE-E1204-B__B2

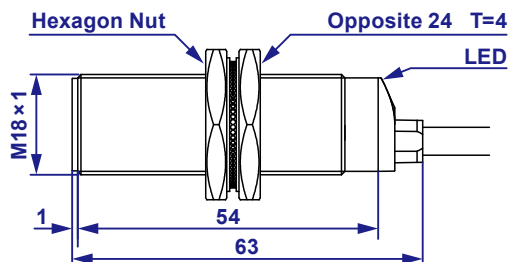


ISE-N1204-B__B2/
ISE-N1208-B__B2

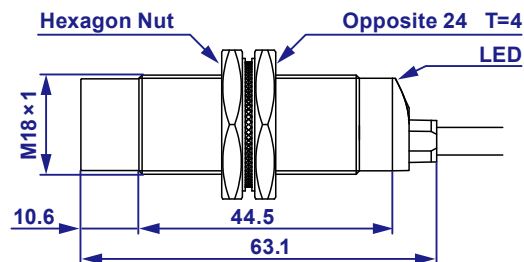


M18

ISE-E1805-B__B2/
ISE-E1808-B__B2

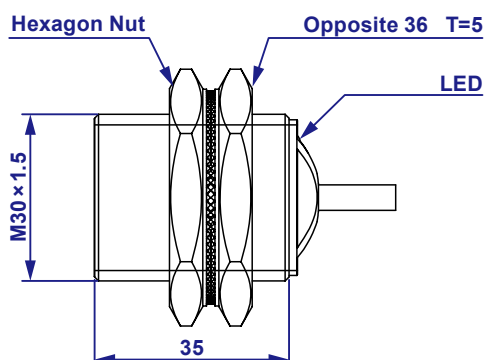


ISE-N1808-B__B2/
ISE-N1816-B__B2

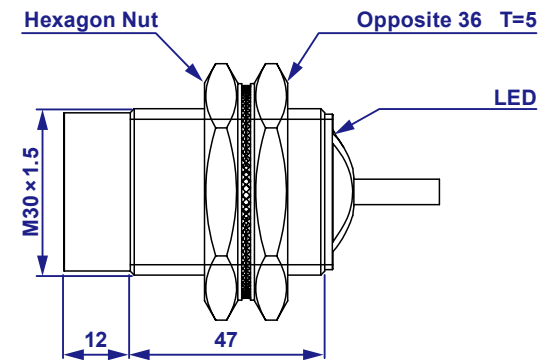


M30

ISE-E3010-B__B2/
ISE-E3016-B__B2



ISE-N3015-B__B2/
ISE-N3025-B__B2

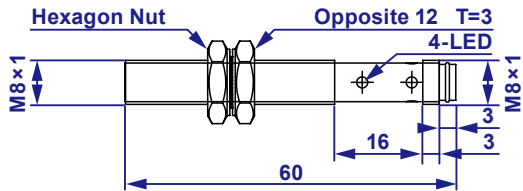


Dimensions: Connector Type

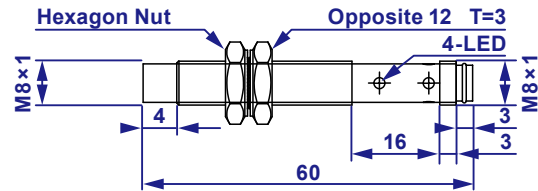
Unit: mm

M8

ISE-E0815-B__BA/
ISE-E0802-B__BA

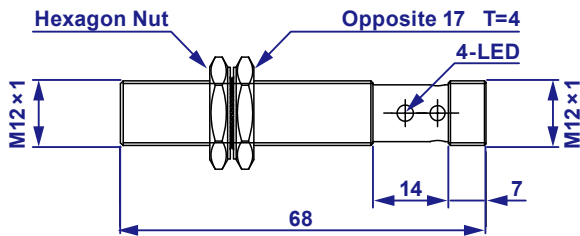


ISE-N0802-B__BA/
ISE-N0804-B__BA

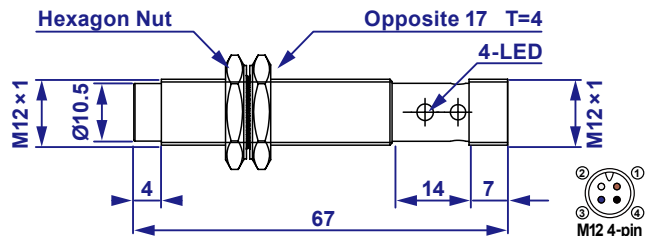


M12

ISE-E1202-B__BA/
ISE-E1204-B__BA

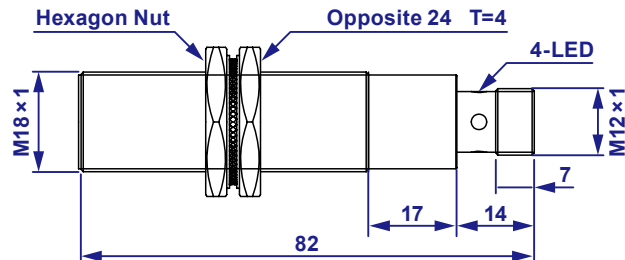


ISE-N1204-B__BA

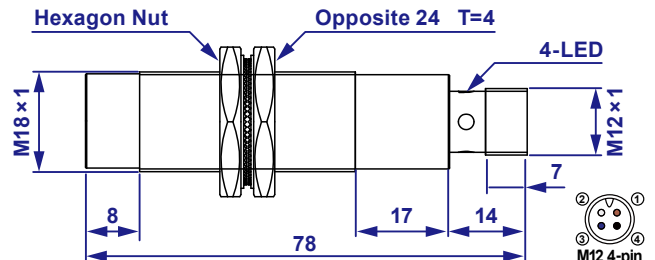


M18

ISE-E1805-B__BA/
ISE-E1808-B__BA

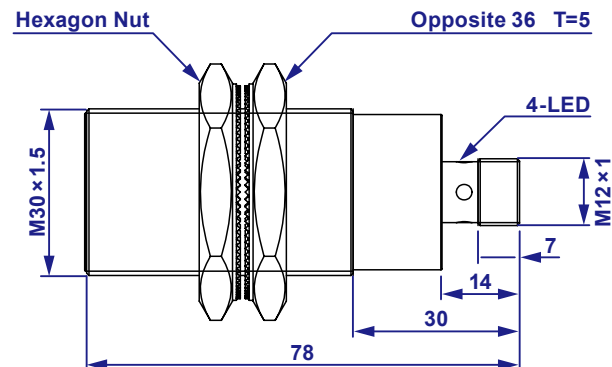


ISE-N1808-B__BA

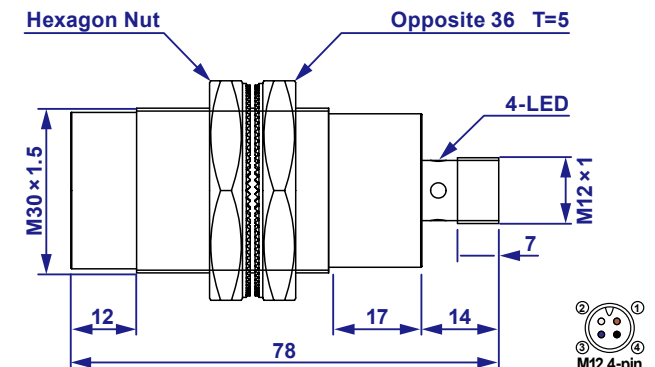


M30

ISE-E3010-B__BA/
ISE-E3016-B__BA

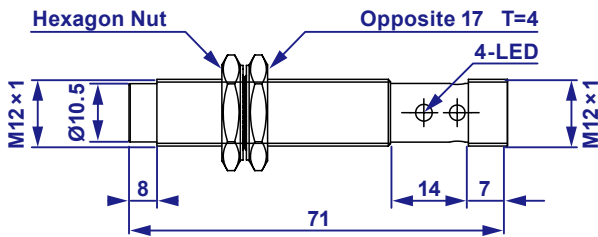


ISE-N3015-B__BA



M 12

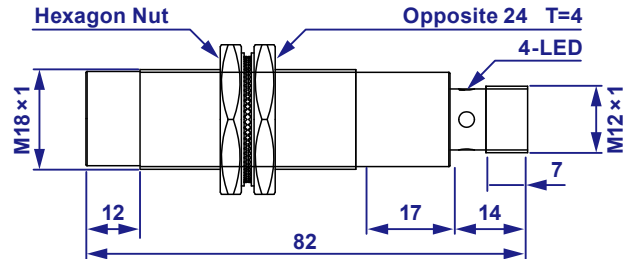
ISE-N1208-B__BA



M 18

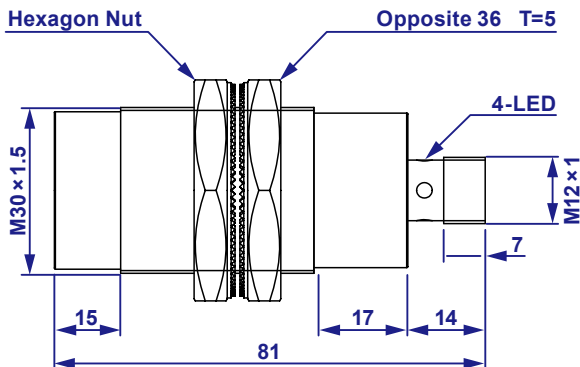
ISE-N1816-B__BA

Unit: mm



M 30

ISE-N3025-B__BA



Ordering Information

ISE - N 08 02 - B NO B2

Product Name
Inductive Proximity Sensor

Mounting
N = Non-isolation
E = Isolation

Diameter Size
08 = 8 mm 18 = 18 mm
12 = 12 mm 30 = 30 mm

Type
B2 = Cable
BA = Connector

Output
NO = NPN N/O PO = PNP N/O
NC = NPN N/C PC = PNP N/C

Sensing Distance
1.5 = 1.5 mm 05 = 5 mm 15 = 15 mm
02 = 2 mm 08 = 8 mm 16 = 16 mm
04 = 4 mm 10 = 10 mm 25 = 25 mm



Smarter. Greener. Together.

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