



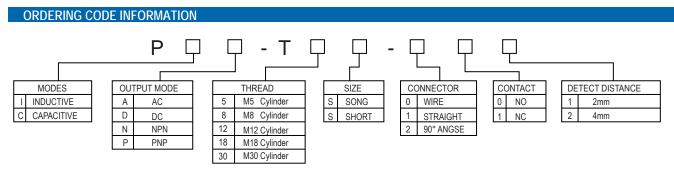
# M12 Short Housing - Inductive Sensor



#### Features:

- Features:
  Inductive sensor, style: cylinder shape, diameter: 12mm; short body.
  DC 3-wire (10-30V DC); DC 4-wire (10-30V DC)
  Connection mode: 3 wire or 3 pin connector; 4 wire or 4 pin connector
  Mounting distance: shielded (2mm), unshielded (4mm)
  With LED operation indicate lamp, easily identifiable
  Brass chrome plated, proof of oil. water acid, alkaline
  Standard sensing object: iferrous metals;
  Protection rate: IP67, water resistant

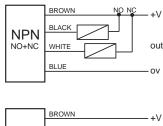
- Over-current protection
- Widely applied in measuring, Counting, Rpm measuring in mechanism, chemical, paper manufacture light industry, etc.

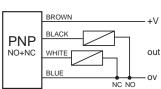


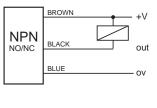
ORDERING CODES					
Model and Type	Output type	Mounting distance	Current output	Power supply	Connector model
PIN-T12S-001	NPN NO	2mm,shielded	≤ 100mA	DC 10-30V	3 Wire
PIN-T12S-011	NPN NC	2mm,shielded	≤ 100mA	DC 10-30V	3 Wire
PIN-T12S-002	NPN NO	4mm,unshielded	≤ 100mA	DC 10-30V	3 Wire
PIN-T12S-012	NPN NC	4mm,unshielded	≤ 100mA	DC 10-30V	3 Wire
PIN-T12S-021	NPN NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	4 Wire
PIN-T12S-022	NPN NO+NC	4mm,unshielded	≤ 100mA	DC 10-30V	4 Wire
PIN-T12S-101	NPN NO	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-111	NPN NC	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-102	NPN NO	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-112	NPN NC	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-121	NPN NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-122	NPN NO+NC	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIN-T12S-201	NPN NO	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIN-T12S-211	NPN NC	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIN-T12S-202	NPN NO	4mm,unshielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIN-T12S-212	NPN NC	4mm,unshielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIN-T12S-221	NPN NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIN-T12S-222	NPN NO+NC	4mm,unshielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-001	PNP NO	2mm,shielded	≤ 100mA	DC 10-30V	3 Wire
PIP-T12S-011	PNP NC	2mm,shielded	≤ 100mA	DC 10-30V	3 Wire
PIP-T12S-002	PNP NO	4mm,unshielded	≤ 100mA	DC 10-30V	3 Wire
PIP-T12S-012	PNP NC	4mm,unshielded	≤ 100mA	DC 10-30V	3 Wire
PIP-T12S-021	PNP NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	4 Wire
PIP-T12S-022	PNP NO+NC	4mm,unshielded	≤ 100mA	DC 10-30V	4 Wire
PIP-T12S-101	PNP NO	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-111	PNP NC	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-102	PNP NO	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-112	PNP NC	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-121	PNP NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-122	PNP NO+NC	4mm,unshielded	≤ 100mA	DC 10-30V	Straight Plug-in connector
PIP-T12S-201	PNP NO	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-211	PNP NC	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-202	PNP NO	4mm,unshielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-212	PNP NC	4mm,unshielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-221	PNP NO+NC	2mm,shielded	≤ 100mA	DC 10-30V	90 Degree Plug-in connector
PIP-T12S-222	PNP NO+NC	4mm,unshielded	≤ mA	DC 10-30V	90 Degree Plug-in connector

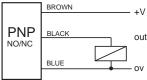
TECHNICAL SPECIFICATIONS	
Property project	Specific parameter
Mounting distance	shielded (2mm) / unshielded(4mm)
Sensing distance	shielded (0-1.8mm) / unshielded (0-3.6mm)
Power supply	DC 10-30V
Frequency	≤ 600Hz
Current output	≤100mA
Ambient temperture	-20°C-70°C
Protection	over-current/against polarity
IP rating	IP67

## **ELECTRICAL CONNECTION DRAWING**



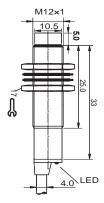




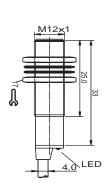


#### PICTURE OF PRODUCT MIX

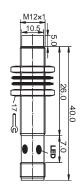
A: Wires & Unshielded



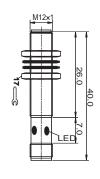
B: Wires & Shielded



C: Connector & Unshielded



D: Connector & Shielded



M12 Short Body All dimensions in millimeters (mm) nominal.

## IPS INDUCTIVE PROXIMITY APPLICATION DIRECTIONS

- a. Set mounting distance equal to 80% of Sn
- b. Set mounting distance roughly equal to 50% of Sn when sensor is used measuring mounting frequency or operating in high speed circumstances. c. Mounting distance will change depending on material (iron, stainless steel, brass, copper and aluminum).

REV. NO.	REVISION NOTE.	DATE	SIGNATURE
-	Original	Nov 2007	LG





As part of the company policy of continued product improvement, specifications may change without notice. Our sales office wil be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing