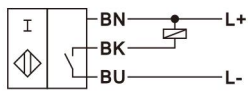
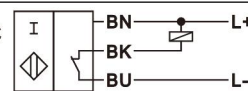
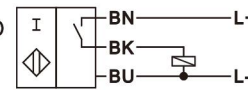
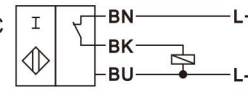
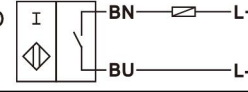
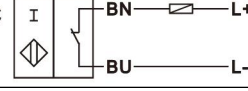
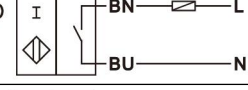
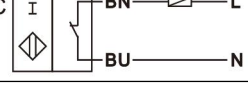




# Inductive Proximity Sensor/Switch Data Sheet

## CJD-PS17-5D Series Angular Column Type Proximity Sensor

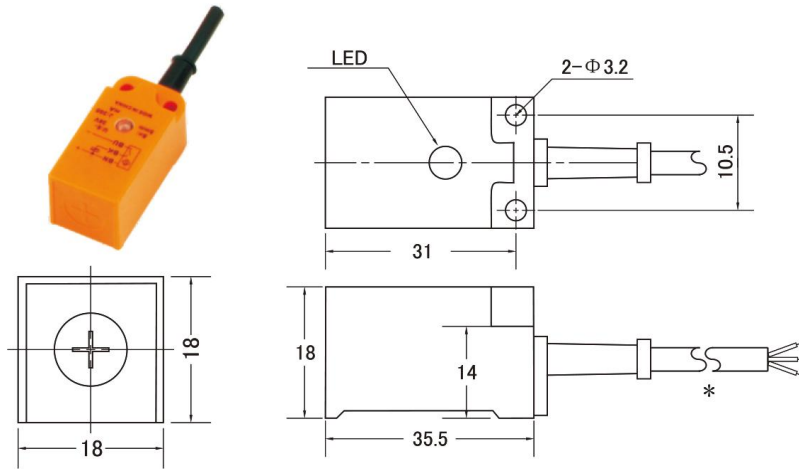
<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>● Inductive proximity switch is a device for realizing the non-electrical measurement by inductive winding or the change of coefficient of mutual induction.</li> <li>● It has high resolution and accuracy for the monitoring and measurement of presence, movement and position of metallic objects.</li> <li>● The operating distance of the sensor depends on the coil's size as well as the target's shape, size and material.</li> <li>● It is divided into two categories according to the working state : NO - Normal Open type, NC - Normal Close type</li> </ul>	<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>◆ Functional type, can be the direct substitution of the same types at home and aboard.</li> <li>◆ Power supply reversal connection protection; short-circuit protection, can directly connect with PLC</li> <li>◆ Newly added current over-load protection; the elements are made of imported chip</li> <li>◆ Long service life, high reliability and strong resistance property to environment</li> <li>◆ Red LED indicates that it's available to detect the sensor operating state</li> <li>◆ IP67 protection structure (IEC specification)</li> </ul>
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Ordering Part Number:				
Model	Detection distance	Switch point function	Working voltage	Connection form
CJD-PS17-5DN	5mm±10%	NPN NO	DC6-36V	NPN NO 
CJD-PS17-5DN2	5mm±10%	NPN NC	DC6-36V	NPN NC 
CJD-PS17-5DP	5mm±10%	PNP NO	DC6-36V	PNP NO 
CJD-PS17-5DP2	5mm±10%	PNP NC	DC6-36V	PNP NC 
CJD-PS17-5D1	5mm±10%	DC NO	DC10-30V	DC NO 
CJD-PS17-5D2	5mm±10%	DC NC	DC10-30V	DC NC 
CJD-PS17-5A1	5mm±10%	AC NO	AC90-250V	AC NO 
CJD-PS17-5A2	5mm±10%	AC NC	AC90-250V	AC NC 



# Inductive Proximity Sensor/Switch Data Sheet

## Structure Parameter:



## Technical Parameter:

Rated action distance (Sn)	5mm
Installation	Front detection
Reliable movement distance (Sa)	0~4mm
Switching frequency (f)	DC 0~500 HZ
Switching frequency (f)	AC 50/60HZ
Hysteresis (H)	Front detectionTypical values%
Reverse polarity protection	Yes
Short circuit protection	Pulse
Voltage drop (Ud)	DC ≤ 1V
Voltage drop (Ud)	AC ≤ 7V
Working current (I <sub>L</sub> )	0~300 mA
Leakage current (I <sub>r</sub> )	0~0.5mA typical values 0.1uA, 25 °C
No-load current (I <sub>D</sub> )	≤ 15mA
Indicator light	Red LED
environment temperature	-20 °C ~ 70 °C (248-343K)
Connection form	2m, PVC
Conductor cross-sectional area	0.14mm
Shell material	PBT
Induction surface	PBT
Protection grade	IP67
Standard	EN 60947-1:2004



# Inductive Proximity Sensor/Switch Data Sheet

## Remarks:

- Inductive proximity sensors detect the metallic objects
- The detection distance may fluctuate with the different materials of the detected target. Custom design in the different rated input current and the output voltage are available.
- Both the configuration parameters and the cable length can be customized. Standard cable length 1.5M.
- If no explicit requirement for the output polarity, the proximity sensor will be supplied based on NPN mode
- Please state the full part number on the order, such as LJK-M-D2N II .

**WARNING : Incorrect wiring may cause damage to the sensor.**

