



# Inductive Proximity Sensor/Switch Datasheet

## CJU2-6.5M Series Cylindrical General Type Proximity Sensor

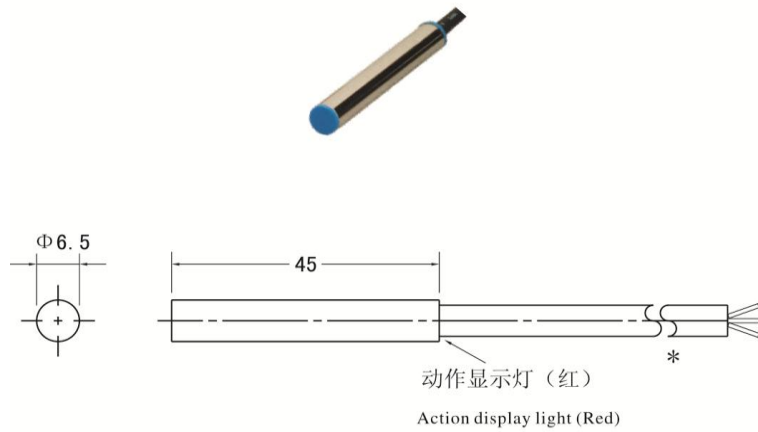
<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>● Inductive proximity switch is a device for realizing the non-electrical measurement by inductive winding or the change of coefficient of mutual induction.</li> <li>● It has high resolution and accuracy for the monitoring and measurement 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>◆ Economy type, can be the direct substitution of the same types in China.</li> <li>◆ Power supply reversal connection protection; short-circuit protection, can directly connect with PLC</li> <li>◆ Super-mini type <math>\Phi 4/M5</math> D.C., M8 A.C. has been trial-produced and promoted</li> <li>◆ Used in common places with medium environment resistance</li> <li>◆ Red LED indicates that it's available to detect the sensor operating state</li> <li>◆ Economic and simply operation</li> <li>◆ Widely used, can be the substitution of min-type switch and limiting switch</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
CJU2-6.5M-N1	2mm±10%	NPN NO	DC6-36V	NPN NO
CJU2-6.5M-N2	2mm±10%	NPN NC	DC6-36V	NPN NC
CJU2-6.5M-P1	2mm±10%	PNP NO	DC6-36V	PNP NO
CJU2-6.5M-P2	2mm±10%	PNP NC	DC6-36V	PNP NC
CJU2-6.5M-D1	2mm±10%	DC NO	DC10-30V	DC NO
CJU2-6.5M-D2	2mm±10%	DC NC	DC10-30V	DC NC
CJU2-6.5M-A1	2mm±10%	AC NO	AC90-250V	AC NO
CJU2-6.5M-A2	2mm±10%	AC NC	AC90-250V	AC NC



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## Structure Parameter:



## Technical Parameter:

Rated action distance (Sn)	2mm
Installation	Non-flush mounting
Reliable movement distance (Sa)	0~1.6mm
Switching frequency (f)	DC 0~1000 HZ
Hysteresis (H)	Typical values%
Reverse polarity protection	Yes
Short circuit protection	Pulse
Voltage drop (Ud)	DC ≤ 1V
Working current (I <sub>L</sub> )	0~100 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	Brass, Nickel plating
Induction surface	PBT
Protection grade	IP65
Standard	EN 60947-1:2004



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## 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 2M.
- If no explicit requirement for the output polarity, the proximity sensor will be supplied based on NPN mode.

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

