

Inductive Proximity Sensor/Switch Datasheet

CJU4-12M Series Cylinder-shaped Proximity Sensor

Introduction

- Inductive proximity switch is a device for realizing the • non-electrical measurement by inductive winding or the change of coefficient of mutual induction.
- It has high resolution and accuracy for the monitoring • and measurement of presence, movement and position of metallic objects.
- The operating distance of the sensor depends on the • coil's size as well as the target's shape, size and material.
- It is divided into two categories according to the working state :
 - NO Normal Open type,
 - NC Normal Close type

Features:

- Equivalent to the same type of the other brands ٠ (P+F and TURCK).
- Power supply reversal connection protection; ٠ short-circuit protection, can directly connect with PLC
- Newly added current over-load protection; the ٠ elements are made of imported chip
- Long service life, high reliability and strong ٠ resistance property to environment
- Red LED indicates that it's available to detect the ٠ sensor operating state
- Full thread shape to enlarge the installation space; can use wrench and clamp directly
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)

Ordering Part Number:					
Model	Detection distance	Switch point function	Working voltage	Connection form	
CJU4-12M-N1	4mm±10%	NPN NO	DC6-36V	NPN NO	
CJU4-12M-N2	4mm±10%	NPN NC	DC6-36V		
CJU4-12M-N4	4mm±10%	NPN NO+NC	DC6-36V		
CJU4-12M-P1	4mm±10%	PNP NO	DC6-36V	PNP NO	
CJU4-12M-P2	4mm±10%	PNP NC	DC6-36V	PNP NC I BN-L+ BK-L- BU-L-	
CJU4-12M-P4	4mm±10%	PNP NO+NC	DC6-36V	PNP NO+NC	
CJU4-12M-D1	4mm±10%	DC NO	DC10-30V		

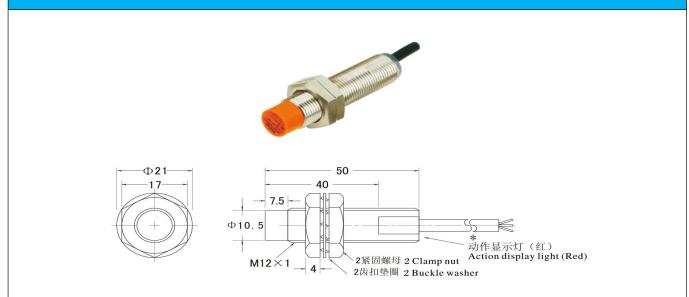




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CJU4-12M-D2	4mm±10%	DC NC	DC10-30V	
CJU4-12M-A1	4mm±10%	AC NO	AC90-250V	
CJU4-12M -A2	4mm±10%	AC NC	AC90-250V	

Structure Parameter:



Technical Parameter:

Rated action distance	4mm		
(Sn)			
Installation	Non-flush mounting		
Reliable movement	0~3.2mm		
distance (Sa)	0~3.211111		
Switching frequency (f)	DC 0~500 HZ		
Switching frequency (f)	AC 50/60HZ		
Hysteresis (H)	Typical values%		
Reverse polarity protection	Yes		
Short circuit protection	Pulse		
Voltage drop (Ud)	DC≤1V		
Voltage drop (Ud)	AC≤7V		
Working current (I _L)	0~300 mA		
Leakage current (Ir)	0~0.5mA typical values 0.1uA, 25℃		
No-load current (ID)	≤15mA		
Indicator light	Red LED		





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environment temperature	-20°C~70°C(248-343K)	
Connection form	2m, PVC	
Conductor cross-sectional	0.14mm	
area		
Shell material	Brass, Nickel plating	
Induction surface	PBT	
Protection grade	IP65	
Standard	EN 60947-1:2004	

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.

