

Capacitive Proximity Sensor/Switch Datasheet

CCM18-38GK Series Electrostatic Capacity Type

Proximity Switch

Introduction

- Capacitive sensors measure the proximity of conductive as well as non-conductive objects with high resolution.
- Analogous to the function of an inductive proximity sensor, a capacitive proximity sensor generates an electrostatic field at the face of the sensor.
- Capacitive proximity sensors can be tuned to detect a wide range of powder, liquid or solid materials.
- It is also possible to detect the presence or absence of materials within a barrier or package when the dielectric of the material is greater than the barrier or packaging.
- Capacitive sensors can also be used as a limit switch, for level detection, object detection and for counting purposes.
- It is divided into two categories according to the working state :

NO - Normal Open type,

NC - Normal Close type

Ordering Part Number:

Features:

- Capacitive type, can detect any dielectric
- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection; the elements are made of imported chip
- Long service life, high reliability and strong resistance property to environment
- Red LED status indicator provides easy-to-view ou tput status.
- Simple operation with adjustable distance.
- The device can be powered by either an AC or DC power source.
- IP67 protection structure(IEC specification)

Model	Detection distance	Switch point function	Working voltage	Connection form
CCM18-38GK-N1	18mm±10%	NPN NO	DC6-36V	
CCM18-38GK-N2	18mm±10%	NPN NC	DC6-36V	
CCM18-38GK-P1	18mm±10%	PNP NO	DC6-36V	
CCM18-38GK-P2	18mm±10%	PNP NC	DC6-36V	
CCM18-38GK-A1	18mm±10%	AC NO	AC90-250V	



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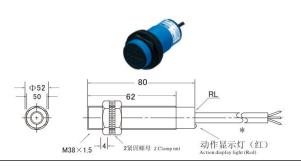
PTel: 025-85996365 E-mail: info@cheemi-tech.com www. cheemi-tech.com d: 22 Building, XianlongWan, South Xianyin Road, Qixia District, Nanjing, China.



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CCM18-38GK-A2 18mm±10% AC NC AC90-250V	
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Structure Parameter:



Technical Parameter:				
Rated action distance (Sn)	18mm			
Installation	Non-flush mounting			
Reliable movement distance (Sa)	0~16mm			
Switching frequency (f)	50Hz			
Hysteresis (H)	Typical values%			
Reverse polarity protection	Yes			
Short circuit protection	Pulse			
Voltage drop (Ud)	DC≤1V			
Voltage drop (Ud)	$AC \leq 7V$			
Working current (I _L)	0~300 mA			
Leakage current (Ir)	0~0.5mA typical values 0.1uA, 25℃			
No-load current (I _D)	≤ 15 mA			
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	IP67			
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.

2 Cheemi Technology Co., Ltd Tel: 025-85996365 E-mail: info@cheemi-tech.com www. cheemi-tech.com dd: 22 Building, XianlongWan, South Xianyin Road, Qixia District, Nanjing, China.



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- > 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.

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