

# Inductive Proximity Sensor/Switch Datasheet

## CGM4-8GM-L7 Series DC Cylinder-shaped Proximity Sensor

## with Longer Sensing Distance

### 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:**

- Longer sensing distance, can be installed in narrow space, mechanical tolerances or through the protective flim used in detection.
- 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 indicates that it's available to detect the 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
CGM4-8GM-N1-L7	4mm±10%	NPN NO	DC6-36V
CGM4-8GM-N2-L7	4mm±10%	NPN NC	DC6-36V
CGM4-8GM-P1-L7	4mm±10%	PNP NO	DC6-36V
CGM4-8GM-P2-L7	4mm±10%	PNP NC	DC6-36V
CGM4-8GM-D1-L7	4mm±10%	DC NO	DC10-30V
CGM4-8GM-D2-L7	4mm±10%	DC NC	DC10-30V
CGM4-8GM-A1-L7	4mm±10%	AC NO	AC90-250V
CGM4-8GM-A2-L7	4mm±10%	AC NC	AC90-250V

## **Ordering Part Number:**





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Structure Parameter:			
-	* Note: The housing overall length of AC two-wire type is 68mm 65 40 40 4-LED M8x1 AF12 4 thick M12x1		
Technical Parameter:   Rated action distance (Sn)	4mm		
Installation	Flush-mounting		
Reliable movement distance (Sa)	0~3.6mm		
Response frequency (N.P)	0.4kHZ		
Response frequency (D)	0.5kHZ		
Response frequency (A)	25HZ		
Hysteresis (H)	Typical values%		
Reverse polarity protection	Yes		
Short circuit protection	Pulse		
Leakage current (Ir)	0~0.5mA typical values 0.1uA, 25℃		
No-load current (ID)	≤15mA		
Insulation impedance	50M Ω		
Indicator light	Red LED		
environment temperature	-25℃~70℃(248-343K)		
Connection form	Connector		
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.

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