

Inductive Proximity Sensor/Switch Datasheet

CGT8-18GM Series 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
CGT8-18GM-N1	8mm±10%	NPN NO	DC6-36V
CGT8-18GM-N2	8mm±10%	NPN NC	DC6-36V
CGT8-18GM-N4	8mm±10%	NPN NO+NC	DC6-36V
CGT8-18GM-P1	8mm±10%	PNP NO	DC6-36V
CGT8-18GM-P2	8mm±10%	PNP NC	DC6-36V
CGT8-18GM-P4	8mm±10%	PNP NO+NC	DC6-36V
CGT8-18GM-D1	8mm±10%	DC NO	DC10-30V
CGT8-18GM-D2	8mm±10%	DC NC	DC10-30V
CGT8-18GM-A1	8mm±10%	AC NO	AC90-250V
CGT8-18GM-A2	8mm±10%	AC NC	AC90-250V

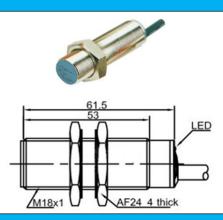
Ordering Part Number:





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Technical Parameter:

8mm	
Flush-mounting	
0~7mm	
0.4kHz	
0.5kHz	
25Hz	
Typical values%	
Yes	
50M Ω	
Pulse	
0~300 mA	
0~0.5mA typical values 0.1uA, 25℃	
Red LED	
-25°C~70°C(248-343K)	
2m, PVC	
Brass, Nickel plating	
PBT	
IP65	
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.

