



# Magnetic Proximity Sensor/Switch Datasheet

## CSAT10-8GM Series Cylinder-shape Proximity Sensor

### Introduction

- Magnetic switch is also called the magnetron, which is a switching element controlled by the magnetic field signal. Disconnect once non-magnetic.
- Magnetic switches are used to detect circuit or the state of mechanical movement and widely applied in Security Door, household doors, printers, fax machines, telephones and other electronic equipment.
- It is divided into two categories according to the working state :  
NO - Normal Open type,  
NC - Normal Close type

### Features:

- ◆ Small size, light weight, easy installation
- ◆ Good installation performance, suitable for all kinds of complex environment
- ◆ Long life-span, high reliability and high stability
- ◆ Sensor induction surface can be made of metal
- ◆ 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
- ◆ IP65 protection structure(IEC specification)

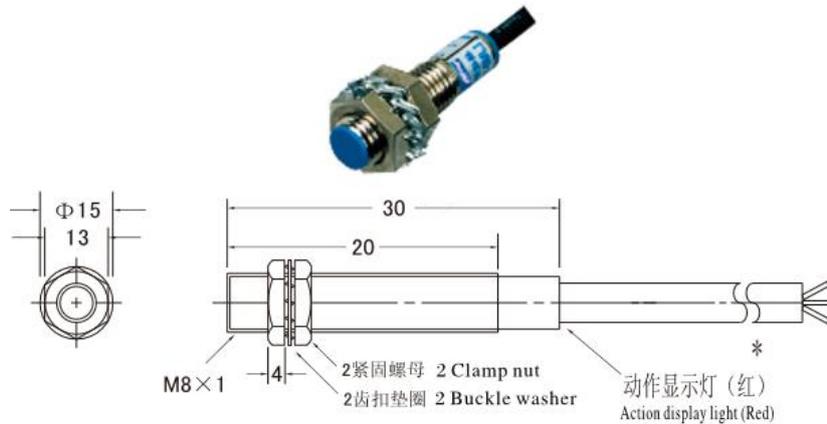
### Ordering Part Number:

Model	Continuous load current	Switch point function	Working voltage	Connection form
CSAT10-8GM-N1	50mA	NPN NO	DC6-36V	
CSAT10-8GM-P1	50mA	PNP NO	DC6-36V	
CSAT10-8GM-H1	50mA	DC/AC NO	DC/AC5-60V	
CSAT10-8GM-A1	50mA	AC NO	DC/AC5-220V	



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## Structure Parameter:



## Technical Parameter:

Dimension	M8×1×30mm
Hysteresis	Typical value%
Reverse polarity protection	Yes
Short-circuit protection	Pulse
Working current (I <sub>L</sub> )	0~300 mA
Leakage current (I <sub>r</sub> )	0~0.5mA typical values 0.1uA, 25℃
No-load current (I <sub>D</sub> )	≤15mA
Continuous load current	50mA
Indicator light	Red LED
environment temperature	-20℃~70℃(248-343K)
Connection form	2m, PVC
Conductor cross-sectional area	0.14mm <sup>2</sup>
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.**