Magnetic Proximity Sensor/Switch Datasheet

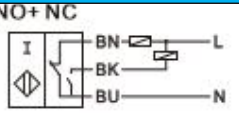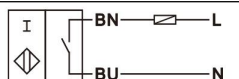## CYG Series Magnetic Inductive Proximity Sensor

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 :
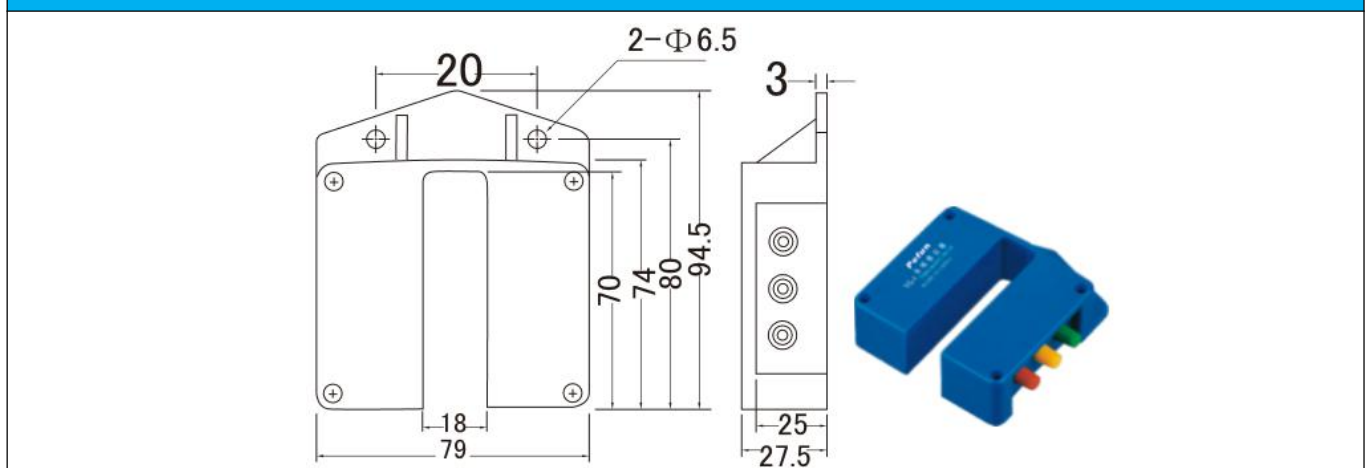 NO - Normal Open type,
  NC - Normal Close type

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
CYG-1	100mA	AC NO+NC	AC90-220V	AC NO+ NC (BN-L, BK, BU-N)
CYG-2	100mA	AC NO	AC90-220V	AC NO (BN-L, BU-N)

Structure Parameter:

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Technical Parameter:

Dimension	28×80×94.5mm
Hysteresis	Typical value%
Reverse polarity protection	Yes
Short-circuit protection	Pulse
Working current (I_L)	0~300 mA
Leakage current (Ir)	0~0.5mA typical values 0.1uA, 25℃
No-load current (I_D)	≤15mA
Continuous load current	100mA
Indicator light	Red LED
environment temperature	-20℃~70℃(248-343K)
Connection form	2m, PVC
Conductor cross-sectional area	0.14mm²
Shell material	PBT
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.