PROXIMITY SENSOR INSTRUCTION SHEET
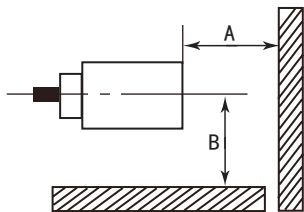
Model

TL−EN/P8C
TL−ENC/PC8C

Dear customers：

In order to operate this product properly and safely, please read this instruction sheet carefully before operation so as to avoid unnecessary damage or loss.

■ Precautions in using the product

1、 When the product is used under the circumstances below, ensure adherence to the limitations of the ratings and functions. Also, take countermeasures for safety precautions such as failsafe installations.

(1)Use under the circumstances or environment which are not described in the instruction sheet.

(2)Use for the equipment which require higher level of safety, such as nuclear devices, railroad, aircrafts, vehicles, combustion devices, amusement machinery, medical equipment, safety device.

(3)Use for the applications where death, serious injury or property damage is possible and extensive safety precautions are required.

2、 Keep following items to secure danger:

(1)Do not use in ambience of flammable, volatile gas;Do not decompose, repair or modification .

(2)The product may explode or be burned with following misusage.

A: To apply excess voltage,or to apply AC source as the power source.

B: To short-circuit the load.

C: To reverse polarity,or to miss-wire.

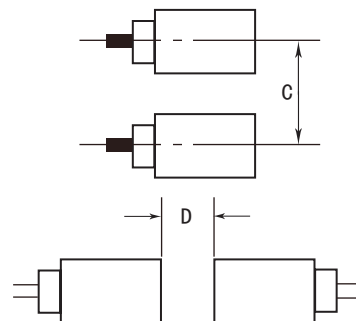## ■ Correct operations

1、 Do not use in the following ambience:

A:Direct sunlight, rain, snow and waterdrop

B:Chemicals, especially solvents and acides

C:Corrosive gas,erosive gas

2、 Proximity sensor may have malfunction with using cellular phones or transceivers near by.

3、 Putting into the same pipe or duct with high-voltage line or power line may cause malfunction, or destruction because of induction.

4、 Mounting:

Tighten the screw to the torque of 0.59N.m maximum.

5、 Effects of surrounding metals:

Be sure that nearby metal from the proximity sensor at a distance greater than that shown in diagram"1", to prevent malfunctions.

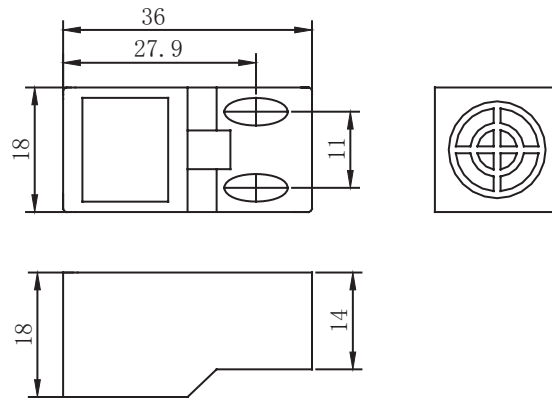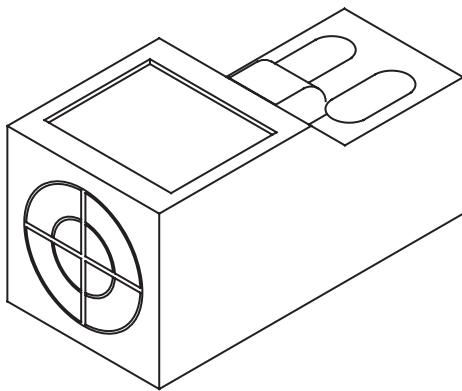6、 Be sure that the two sensors at a distance greater than that shown in diagram"2", to prevent mutual interference.
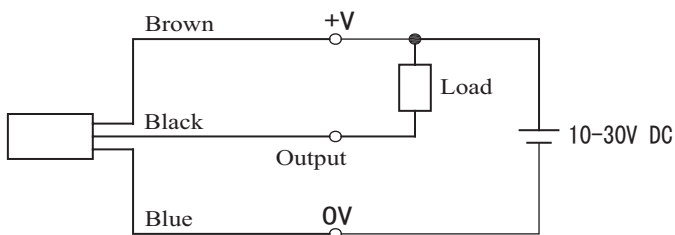
Diagram"1"

Model	A(mm)	B(mm)
TL−EN/P8C TL−ENC/PC8C	30	30

Diagram"2"

Model	C(mm)	D(mm)
TL−EN/P8C TL−ENC/PC8C	80	150

■ Technical Specifications:

Type	DC-3wire	
Model	TL-EN8C/TL-ENC8C	TL-EP8C/TL-EPC8C
Output	NPN NO/NPN NC	PNP NO/PNP NC
Rated operating distance	8mm	8mm
Assured operating distance	0～6.4mm	0～6.4mm
Frequency	≤200Hz	≤200Hz
Rated operational current	≤200mA	≤200mA
Power supply	DC 10-30V	DC 10-30V
Protection level	IP66(IEC)	IP66(IEC)
Ambient temperature	-25℃-75℃	-25℃-75℃

■ Dimensions: [Unit:mm]

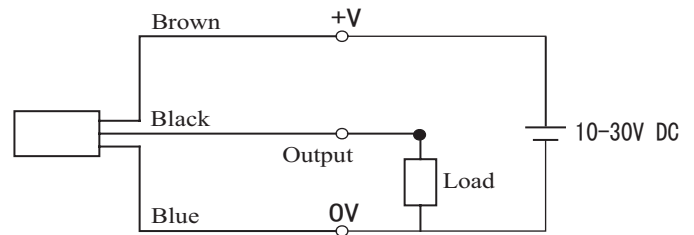# ■ Connection Diagrams

*Max.Load current:200mA

(NPN)

*Max.Load current:200mA

(PNP)