

Square-TQ Series

Pre-wired



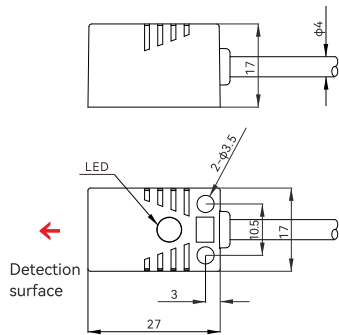
Basic Features	Working principle	Inductive sensor					
	Housing	Square					
	Installation type	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
	Sensing distance	5.0mm ± 10%	8.0mm ± 10%	5.0mm ± 10%	8.0mm ± 10%	5.0mm ± 10%	8.0mm ± 10%
	Thread size	—					
	Sensing surface material	ABS					
	Detected objects	Metal					
	Indicator	Operation Status: LED					
	Sensing range adjustment	None					
	Electrical data	Switching output	Normally Open or Normally Closed				
Output mode		NPN or PNP Open Collector					
External input		None					
Switching frequency		1kHz	0.3kHz	1kHz	0.3kHz	1kHz	0.3kHz
Repeatability		1%					
Hysteresis		15%					
Operating Voltage		10~30V DC					
Current consumption		≤10mA					
Residual Voltage		<1.5V					
Load current		150mA					
Leakage current		<0.01mA					
Insulation resistance		≥50MΩ with 500V DC between power terminals and enclosure					
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure					
Vibration resistance		10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions					
Circuit Protection		Short circuit protection					
Environmental conditions	Operating Temperature	-25~+75℃					
	Operating Humidity	35~85%					
	Enclosure rating	IP67					
	Connection type	2m/3-core Cable					
Mechanical data	Dimension	27.0x17.0x17.0mm		34.0x18.0x18.0mm		30.5x18.0x10.0mm	
	Material	Plastic+ABS					
	Weight	0.05kg					
	Accessories	—					
	Model	NPN NO	TQF17-05NO	TQN17-08NO	TQF18-05NOHOT	TQN18-08NO	TQF18C-05NOHOT
Others		NO:NPN Normally open		NC:NPN Normally closed	PO:PNP Normally open	PC:PNP Normally closed	

Unit:mm

Dimensions-Pre-wired

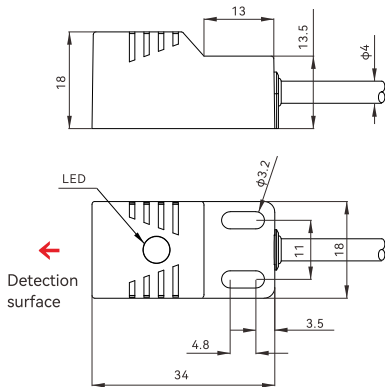
Q17

TQF17-05□□
TQN17-08□□



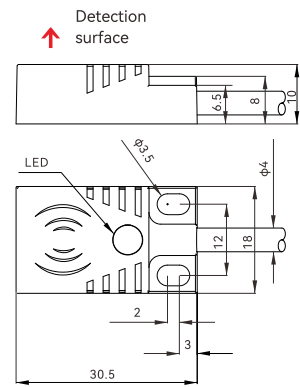
Q18

TQF18-05□□
TQN18-08□□



Q18C

TQF18C-05□□
TQN18C-08□□



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistant type

Flat type

Level detection