

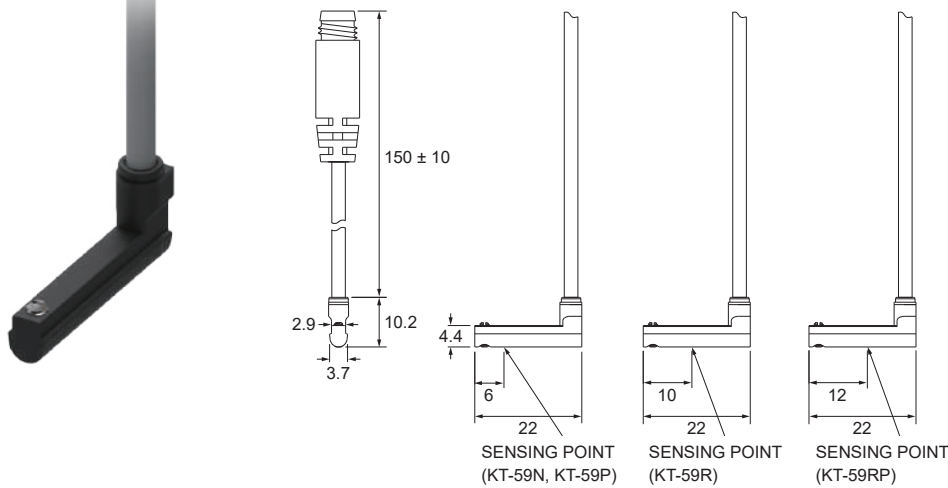
KT-59 SERIES

Magnetic Sensor



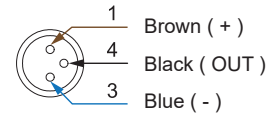
Dimensions

KT-59R, KT-59N, KT-59P, KT-59RP /
KT-59R-QD, KT-59N-QD, KT-59P-QD, KT-59RP-QD

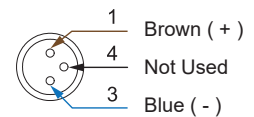


QD Pinout

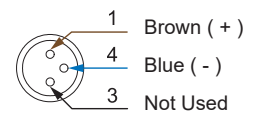
3 wire QD wiring



2 wire QD wiring



2 wire EQD wiring



Unit : mm

Specifications

MODEL	KT-59R	KT-59N	KT-59P	KT-59RP
Connect Diagram Characteristics				
Wiring Method	2-Wire Type	3-Wire Type		
Switching Logic	SPST, Normally Open	Solid State Output, Normally Open		SPST, Normally Open
Sensor Type	Reed Switch	NPN Current Sinking	PNP Current Sourcing	Reed Switch
Operating Voltage	5 ~ 120 V DC / AC	10 ~ 30 V DC		10 ~ 30 V DC / AC
Switching Current	100 mA max.	200 mA max.		500 mA max.
Contact Rating ※1	10 W max.	6 W max.		10 W max.
Current Consumption ※2	-	10 mA @ 24 V DC max.		5 mA @ 24 V DC max.
Voltage Drop ※2	3.5 V max.	0.5 V @ 50 mA max.		0.1 V @ 100 mA max.
Leakage Current ※2	-	0.01 mA max.		-
Indicator	Red LED		Yellow LED	
Lead Wire	Ø2.5 PUR - 28 AWG (0.082 mm ²) - 2 cores		Ø2.5 PUR - 28 AWG (0.082 mm ²) - 3 cores	
Operating Frequency	200 Hz	1000 Hz		200 Hz
Magnet Requirement ※2, 3	70 Gauss	40 Gauss		50 Gauss
Temperature Range	-10 ~ 70 °C			
Shock ※4	30 G	50 G		30 G
Vibration ※5	9 G			
Enclosure	IEC 60529 IP67			
Protection Circuit ※6	1	3, 4		1

NOTE

※1 : WARNING : Never exceed rating (Watt = Voltage × Amperage).
Permanent damage to sensor will occur.

※2 : It bases on conditions of voltage 24 V DC, ambient temp. 25 °C and 2 meters cable of sensor. Voltage drop increases in pace with cable length.

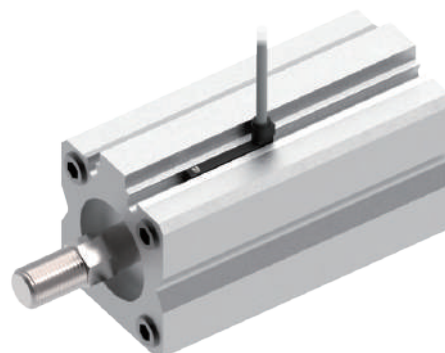
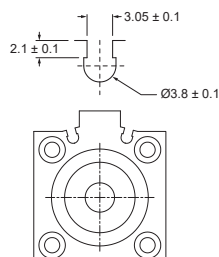
※3 : Measuring standard target : Ø15.5 × Ø8 × 5t (Anisotropy rubber magnet)

※4 : Sin wave / X, Y, Z 3 directions / 3 times each direction / 11 ms each time.

※5 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz (Sweep 1 min) / X, Y, Z 3 directions / 1 hour each time.

※6 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

Groove Dimensions



Unit : mm