

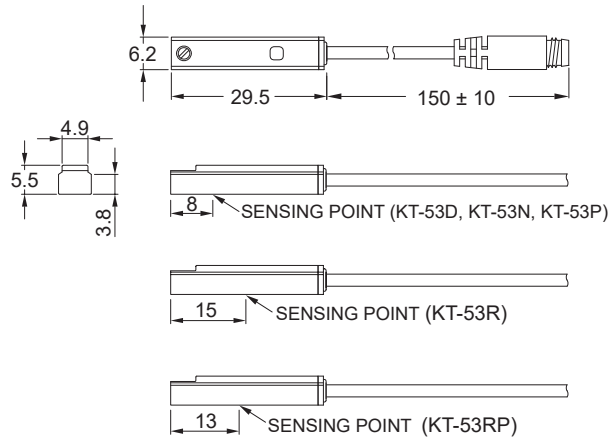
KT-53 SERIES

Magnetic Sensor



Dimensions

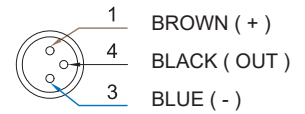
KT-53R, KT-53D, KT-53N, KT-53P, KT-53RP /
KT-53R-QD, KT-53D-QD, KT-53N-QD, KT-53P-QD,
KT-53RP-QD



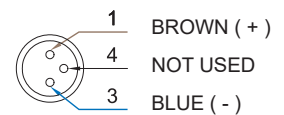
Unit : mm

QD Pinout

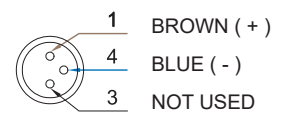
3 wire QD wiring



2 wire QD wiring



2 wire EQD wiring



Specifications

MODEL	KT-53R	KT-53D	KT-53N	KT-53P	KT-53RP
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 ~ 240 V DC / AC	10 ~ 28 V DC	10 ~ 30 V DC		10 ~ 30 V DC / AC
Switching Current	100 mA max.	50 mA max.	100 mA max.		500 mA max.
Contact Rating *1	10 W max.	1.5 W max.	3 W max.		10 W max.
Current Consumption	-		8 mA @ 24 V DC max.		10 mA @ 24 V DC max.
Voltage Drop	3.5 V max.		1.5 V max.		0.1 V @ 100 mA max.
Leakage Current	-	0.8 mA max.	0.01 mA max.		-
Indicator	Red LED			Yellow LED	
Cable	ø3, 2C, PUR		ø3, 3C, PUR		
Operating Frequency	200 Hz	1000 Hz			200 Hz
Magnet Requirement *2	70 Gauss	50 Gauss			70 Gauss
Temperature Range	-10 ~ 70 °C				
Shock *3	30 G	50 G			30 G
Vibration *4	9 G				
Enclosure Classification	IEC 60529 IP67				
Protection Circuit *5	1	2, 4	2, 3, 4		1

NOTE:

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

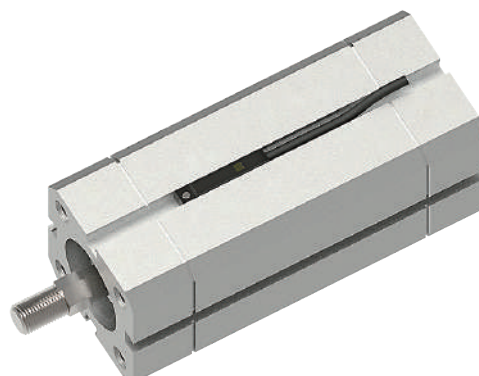
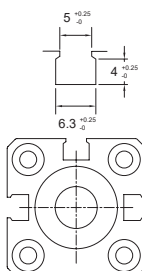
*2 : Measuring standard target : ø15.5 × ø8 × 5t (Anisotropy rubber magnet)

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

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

*5 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

Groove Dimensions



Unit : mm