

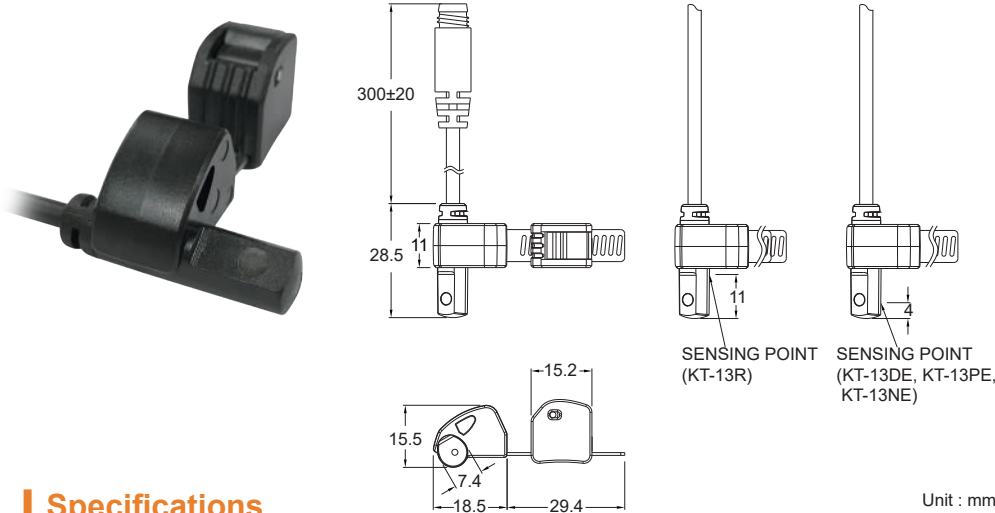
KT-13 SERIES

Magnetic Sensor



Dimensions

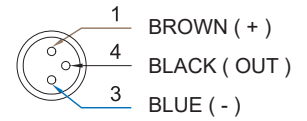
KT-13R, KT-13DE, KT-13NE, KT-13PE /
KT-13R-QD, KT-13DE-QD, KT-13NE-QD, KT-13PE-QD



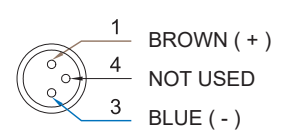
Unit : mm

QD Pinout

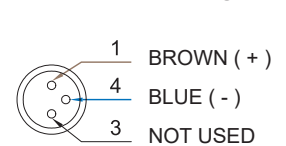
3 wire QD wiring



2 wire QD wiring



2 wire EQD wiring



Specifications

MODEL	KT-13R	KT-13DE	KT-13NE	KT-13PE
Connect Diagram				
Characteristics				
Wiring Method	2-Wire Type		3-Wire Type	
Switching Logic	SPST, Normally Open	Solid State Output, Normally Open		
Sensor Type	Reed Switch	-	NPN Current Sinking	PNP Current Sourcing
Operating Voltage	5 ~ 240 V DC / AC	5 ~ 30 V DC		
Switching Current	100 mA max.	50 mA max.	200 mA max.	
Contact Rating *1	10 W max.	1.5 W max.	6 W max.	
Current Consumption	-		6 mA @ 24 V DC max.	
Voltage Drop	3.5 V max.	3.7 V max.	0.5 V @ 200 mA max.	
Leakage Current	-	0.1 mA (40 uA) max.	0.01 mA max.	
Indicator	Red LED			Green LED
Cable	ø3.3, 2C, PVC		ø3.3, 3C, PVC	
Operating Frequency	200 Hz	1000 Hz max.		
Magnet Requirement *2	55 Gauss	40 ~ 1000 Gauss		
Temperature Range	-10 ~ 70 °C			
Shock *3	30 G	50 G		
Vibration *4	9 G			
Enclosure Classification	IEC 60529 IP67			
Protection Circuit *5	1	3, 4		

NOTE:

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

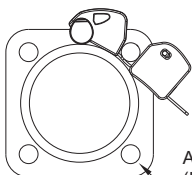
*2 : Measuring standard target : ø15.5 × ø8 × 5t (Anisotropy rubber magnet)

*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

Clamps



Applicable rod diameter Ø6 ~ Ø16
(Using ISO Tie-Rod cylinder range Ø32 ~ Ø200)



Hex key Size : 2 mm

Unit : mm