

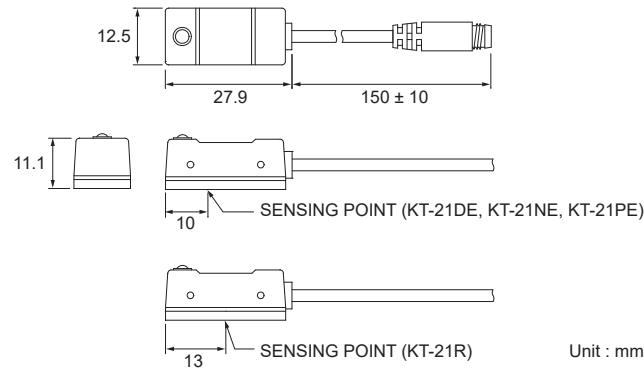
KT-21 SERIES

Magnetic Sensor



Dimensions

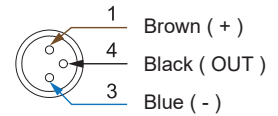
KT-21R, KT-21DE, KT-21NE, KT-21PE /
KT-21R-QD, KT-21DE-QD, KT-21NE-QD, KT-21PE-QD



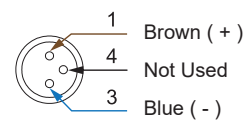
Unit : mm

M8 QD Pinout

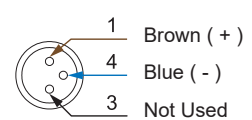
3 wire QD wiring



2 wire QD wiring



2 wire EQD wiring



Specifications

MODEL	KT-21R	KT-21DE	KT-21NE	KT-21PE
Connect Diagram				
Characteristics	2-Wire type		3-Wire type	
Wiring Method	SPST, Normally Open		Solid State Output, Normally Open	
Switching Logic	Reed Switch		NPN Current Sinking	
Sensor Type	-		PNP Current Sourcing	
Operating Voltage	5 ~ 240 V DC / AC		5 ~ 30 V DC	
Switching Current	100 mA max.		200 mA max.	
Contact Rating ※1	10 W max.		6 W max.	
Current Consumption ※2	-		6 mA @ 24 V DC max.	
Voltage Drop ※2	3.5 V max.		0.5 V max.	
Leakage Current ※2	-		0.01 mA max.	
Indicator	Green LED		Red LED	
Lead Wire	Ø3.9 PVC - 24 AWG (0.22 mm ²) - 2 cores		Ø4 PVC - 24 AWG (0.22 mm ²) - 3 cores	
Operating Frequency	200 Hz		1000 Hz max.	
Magnet Requirement ※2, 3	80 Gauss		50 ~ 1000 Gauss	
Temperature Range	-		-10 ~ 70 °C	
Shock ※4	30 G		50 G	
Vibration ※5	-		9 G	
Enclosure	-		IEC 60529 IP67	
Protection Circuit ※6	1		3, 4	

NOTE

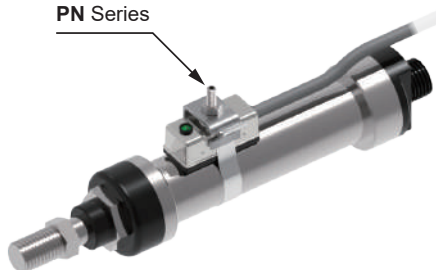
- ※1 : WARNING : Never exceed rating (Watt = Voltage × Amperage).
Permanent damage to sensor will occur.
※2 : It bases on conditions of voltage 24 V DC, ambient temp. 25 °C and 2 meters cable of sensor. Voltage drop increases in pace with cable length.
※3 : Measuring standard target : Ø15.5 × Ø8 × 5t (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

Clamp / Bracket

KT-20 & KT-21 series can be applied to many kind of cylinders

PN Series



PM Series

