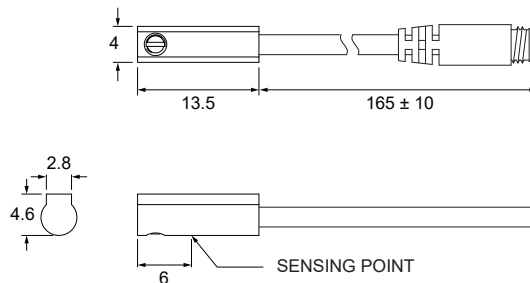


# KT-86 SERIES



## Dimensions

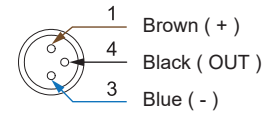
KT-86D, KT-86N, KT-86P /  
KT-86D-QD, KT-86N-QD, KT-86P-QD



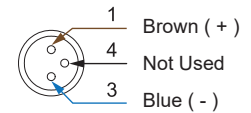
Unit : mm

## M8 QD Pinout

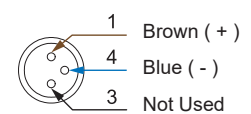
### 3 wire QD wiring



### 2 wire QD wiring



### 2 wire EQD wiring



## Specifications

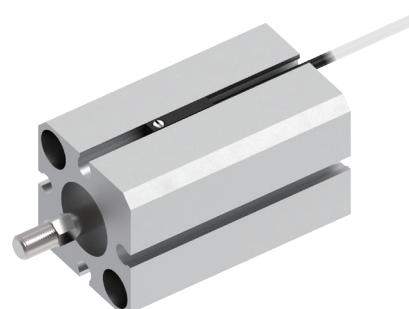
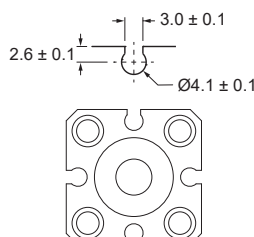
MODEL	KT-86D	KT-86N	KT-86P
<b>Connect Diagram</b>			
<b>Characteristics</b>			
<b>Wiring Method</b>	2-Wire type	3-Wire type	
<b>Switching Logic</b>	Solid State Output, Normally Open		
<b>Sensor Type</b>	-	NPN Current Sinking	PNP Current Sourcing
<b>Operating Voltage</b>	5 ~ 30 V DC		
<b>Switching Current</b>	≤ 80 mA	≤ 150 mA	
<b>Contact Rating ※1</b>	≤ 2.4 W	≤ 4.5 W	
<b>Current Consumption ※2</b>	-	≤ 2 mA	
<b>Voltage Drop ※2</b>	≤ 4.0 V @ 80 mA	≤ 1.5 V @ 150 mA	
<b>Leakage Current ※2</b>	≤ 0.1 mA	≤ 0.01 mA	
<b>Indicator</b>	Red LED		
<b>Lead Wire</b>	Ø2.6 PVC - 27 AWG ( 0.11 mm <sup>2</sup> ) - 2 cores	Ø2.6 PVC - 27 AWG ( 0.11 mm <sup>2</sup> ) - 3 cores	
<b>Operating Frequency</b>	≤ 1000 Hz		
<b>Magnet Requirement ※2, 3</b>	40 ~ 1000 Gauss		
<b>Temperature Range</b>	-10 ~ 70 °C		
<b>Shock ※4</b>	50 G		
<b>Vibration ※5</b>	9 G		
<b>Enclosure</b>	IEC 60529 IP67		
<b>Protection Circuit ※6, 7</b>	3, 4, 5	2, 3, 4	2, 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 / 5 = Sensor thermal protection.
- ※7 : The LED will flash when Short-circuit or Sensor Thermal Protection is ON.

## Groove Dimensions



Unit : mm