RDT series

SENSOR SWITCH





Order example

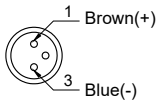
RDT — 2M

MODEL	WIRE LENGTH
RDT: Non-contact **RQT**: NPN & PNP configurations*	**2M**: L=2000mm **QD**: M8, 3 Pin connector **EQD**: M8, 3 Pin connect (EQD only for RDT)

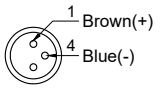
* Selects the mode based on NPN or PNP wiring configuration.
Always turn off power before wiring; never work on live wires.

Wiring of the QD

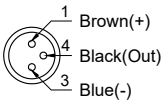
● 2 wire QD wiring



● 2 wire EQD wiring

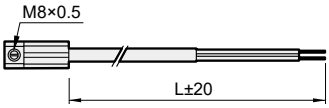


● 3 wire QD wiring

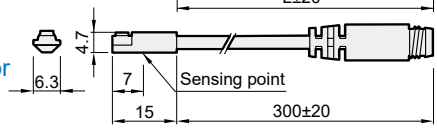


Dimension

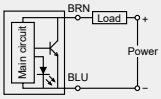
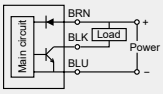
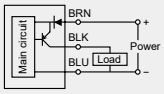
Standard lead wire



QD connector



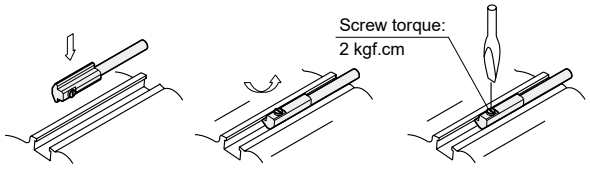
Specification

Model	RDT	RQT	
Wiring	2 wire	3 wire	
Switching logic	Normally open		
Switch type	Non-contact	NPN current sinking	PNP current sourcing
Voltage range	5~30V DC		
Switching current	50mA max.	80mA max.	
Contact rating (*1)	1.5W max.	2.4W max.	
Current consumption (*5)	—	2 mA@24V DC max.	
Voltage drop (*5)	4.0V @50mA max.	1.2V@80mA max.	
Leakage current (*5)	0.1mA max.	0.01mA max.	
Magnet requirement (*5,6)	40~1000 Gauss		
Indicator	Red LED		
Cable	ø2.8, 27AWG, Black PVC		
Operating frequency	1000 Hz		
Temperature	-10~+70°C (No freezing)		
Shock (*2)	50G		
Vibration (*3)	9G		
Protection classification	IEC 60529 IP67		
Protection circuit (*4,7)	3, 4, 5	2, 3, 4	
Weight	19.5g (2m cable)	21.5g (2m cable)	
Connect diagram			

*1. Warning: Never exceed rating (watt=voltage×amperage). Permanent damage to sensor will occur.
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.
*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression /5=Sensor thermal protection.
*5. It bases on conditions of voltage 24V DC, ambient temp. 25°C and cable 2M length. Voltage drop increases in pace with cable length.
*6. Measuring standard target : ø15.5 × ø8 × 5t (Anisotropy rubber magnet)
*7. The LED will flash when Short-circuit or Sensor Thermal Protection is ON.
*8. Please turn off the power before installing or changing the output contact, and ensure the load is installed according to the wiring diagram to prevent abnormal operation or product malfunction.
*9. Caution for safety.

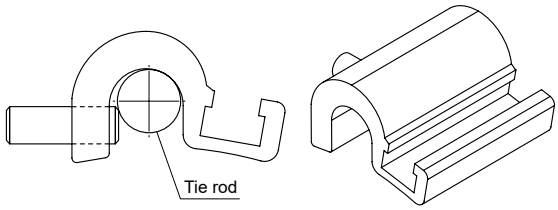
Assembling style

Cylinder model
MCQI3, MCKQI3, MCBQI3, MCJI, MCGI, MGTB, MGTU, MGTX, MCRPL2-32~40, MCRPLF2-32~63, METB
Direct mounting

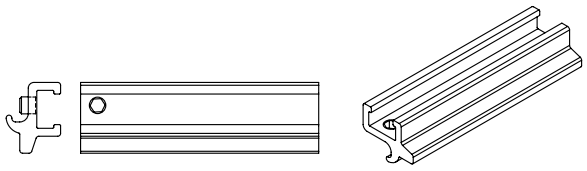


Model	Tube I.D.	Holder	Tie rod
MCQA	200	**DT-5**	ø19
MCQV	125	**DT-3**	ø10.8
	160		ø15
	200		
MCQV3 MCBQV3	32	**DT-1**	ø5.3
	40		
	50		ø7.1
	63		
	80	**DT-2**	ø8.9
	100		
MCQV3L	63	**DT-1**	ø7.1
	80	**DT-2**	ø8.9
MCBQV	125	**DT-3**	ø10.8
MCRPL2 MCRPLF2	16	**HPL2**	–
	25	**HPL2**	

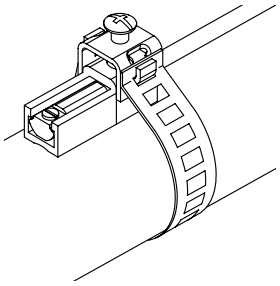
DT-*



HPL2



Model	Tube I.D.	Holder with band
MCBMI	20	**BKT-1**
	25	
MCMI	8	
	10	
	12	
	16	
	20	
	25	
	32	
	40	
MCMIS	10	
	12	
	16	
	20	
	25	
MCKMI	16	
	20	
	25	
MGTK/ B/ U	20	
	25	



Mounting steps

