RDC series

SENSOR SWITCH





Order example

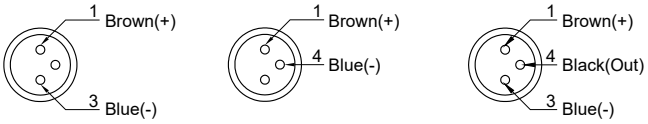
RDC V — 2M

Model	Auto switch type	Wire length
RDC: Non-contact **RQC**: NPN & PNP configurations*	Blank: Straight cable	**2M**: L=2000mm **QD**: M8, 3 Pin connector **EQD**: M8, 3 Pin connector (Only for RDC)
	V: Angle cable	**2M**: L=2000mm

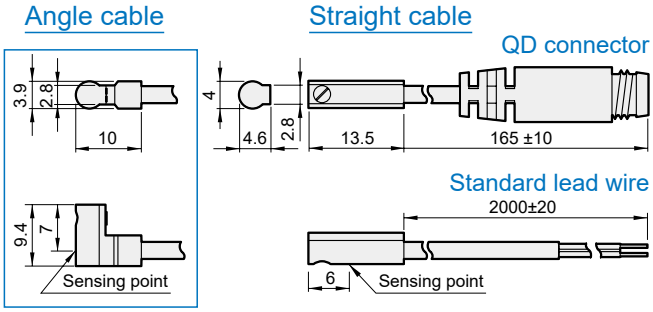
* Selects the mode based on NPN or PNP wiring configuration.
Always turn off power before wiring; never work on live wires.

Wiring of the QD

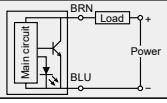
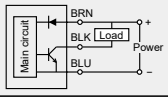
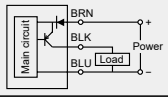
- 2 wire QD wiring
- 2 wire EQD wiring
- 3 wire QD wiring



Dimension

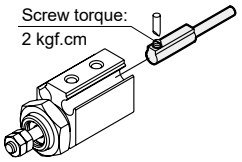


Specification

Model	RDC / RDCV	RQC / RQCV	
Wiring method	2 wire	3 wire	
Switching logic	Normally open		
Switch Type	Non-contact	NPN current sinking	PNP current sourcing
Operating voltage	5~30V DC		
Switching current	50mA max.	80mA max.	
Contact rating(*1)	1.5W max.	2.4W max.	
Current consumption (*5)	—	2mA @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	ø2.6, 27AWG, Black, PVC		
Operating Frequency	1000 Hz		
Temperature range	–10~+70°C (No freezing)		
Shock (*2)	50G		
Vibration (*3)	9G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4,7)	3, 4, 5	2, 3, 4	
Weight	17 g (2m cable)	19 g (2m cable)	
Connect diagram			

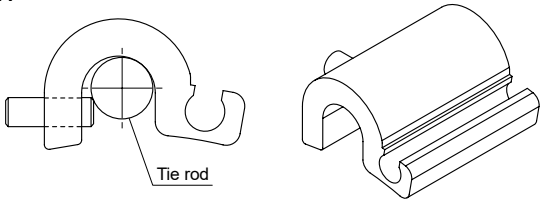
*1. Warning: Never exceed rating (watt=voltage×amperage). Permanent damage to sensor will occur.
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.
*4. 1=None / 2=Short-circuit / 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

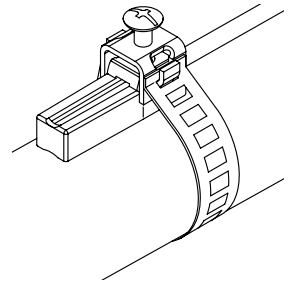
Cylinder model
MAM*, MCJU, MCFB, MCMJP, MCDJ, MGT*-32~63, MCSF2-5, MCRPM-20~40, MCRPMD-10, MCRPMS, MSBE, MCRQ2, MCRQ2-J, MCRQ2-S, MCRJ-S, MCRC, MCHC-6/32/40, MCHCJ, MCHD, MCHH, MCHU2, MCHS2(-OS), MCHX2, MCHG2, MCHY2, METI, MEQI, MEGS, MEGT, MEJQ, MESF2, MESBE
Direct mounting


Model	Tube I.D.	Holder	Tie rod
MCQA	40	**DT7-1**	ø7.1
	50		
	63		
	80	**DT7-3**	ø10.8
	100		
	125		ø12.9
	150		ø15
MCQN	40	**DT7-1**	ø6
	50		ø7.1
	63		
	80	**DT7-2**	ø8.9
	100		
MCQV3 MCBQV3	32	**DT7-1**	ø5.3
	40		
	50		ø7.1
	63		
	80	**DT7-2**	ø8.9
	100		
MCQV3L	63	**DT7-1**	ø7.1
	80	**DT7-2**	ø8.9
MCQV	125	**DT7-3**	ø10.8
	160		ø15
	200		
MCBQV	125	**DT7-3**	ø10.8

DT7-*



Model	Tube I.D.	Holder with band
MCMA	16	**BKC-1** (Not applicable for Angle cable(V))
	20	
	25	
	32	
	40	
MCMB MCMBR*	20	
	25	
	32	
	40	
MCKMB	20	
	25	
	32	
	40	
MCMBL	32	
	40	
MCMI	8	
	10	
	12	
	16	
	20	
	25	
	32	
	40	
MCBMI MGTK/ B/ U	20	
	25	
MCMIS	10	
	12	
	16	
	20	
	25	
MCKMI	16	
	20	
	25	
MCMJ	6	
	10	
	16	
MCCG MCCN	20	
	25	
	32	
	40	
	50	
	63	
MCCH	25	
	32	
MCKA	40	



Mounting steps

