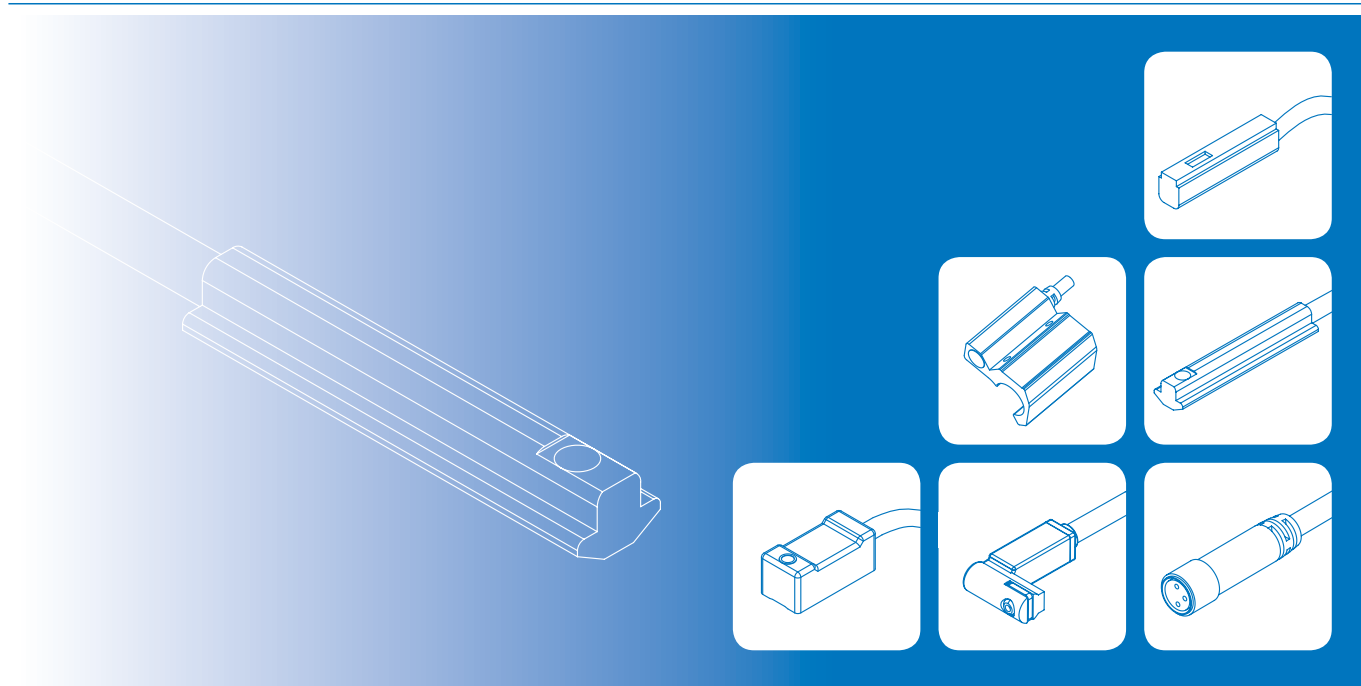
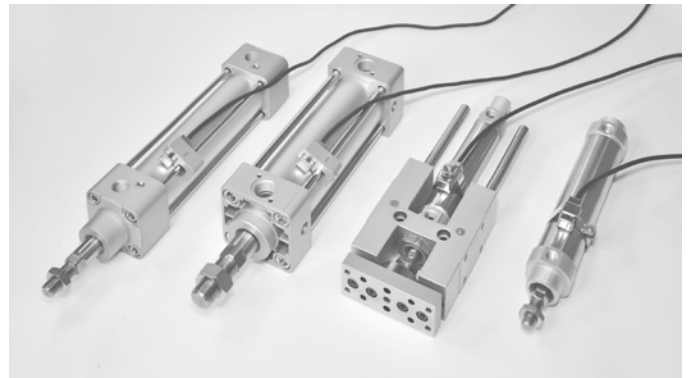


AUXILIARY EQUIPMENT



SENSOR SWITCH	
RC*	RCA.....5-2
	RCB.....5-4
	RCD5-5
	RCE / RCE1.....5-6
	RCI.....5-7
RD*	RDEP5-9
	RDF.....5-10
	RDKP5-11
R*	RH.....5-12
	RK5-13
	RT5-14
LN*	LN01A5-15
	LN01G.....5-16
	LN01P5-17
	LN32H.....5-18
	LN40R.....5-19
	CIRCULAR CONNECTOR
M8*5-20



Order example

RCA — □

MODEL

C: Reed switch
D: Without contact
N: NPN
P: PNP

WIRE LENGTH

Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

Switch holder / band

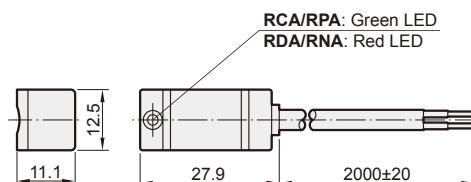
HV1

SWITCH HOLDER

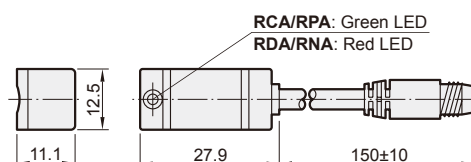
HA*: for MCQA, MCQV
HV*: for MCQA, MCQV, MCQV2, MCQV2L,
MCBQV, MCBQV2, MCQN
HS*: for MSB*-ø50
BGA*: for MCKG*
PN-A*: for MCKA
PM*: for MCQA, MCQV

Dimension

RCA/RDA/RNA/RPA



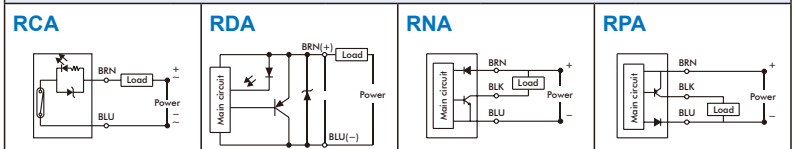
RCA-QD/RDA-QD/ RNA-QD/RPA-QD



Specification

Model	RCA	RDA	RNA	RPA
Wiring method	2 wire		3 wire	
Switching logic	SPST N.O.	Solid state output, normally open		
Switch type	Reed switch	Without contact	NPN current sinking	PNP current sourcing
Operating voltage	5~240V DC/AC		5~30V DC	
Switching current	100mA max.	50mA max.	200mA max.	
Switching rating (*1)	10W max.	1.5W max.	6W max.	
Current consumption	—		15 mA@24V DC max.	
Voltage drop	3.5V max.	3.7V max.	1.5V max.	
Leakage current	—	0.1mA max.	0.01mA max.	
Indicator	Green LED	Red LED		Green LED
Cable	ø4, 2C, PVC		ø4, 3C, PVC	
Temperature range	-10~+70°C (No freezing)			
Shock (*2)	30G	50G		
Vibration (*3)	9G			
Enclosure classification	IEC 60529 IP67			
Protection circuit (*4)	1	3,4	2,3,4	
Weight	46 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.

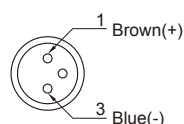
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.

*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression

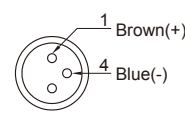
*5. Caution for safety please refer to page 8~9.

Wiring of the QD

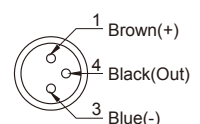
• 2 wire QD wiring



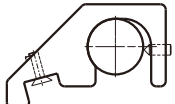

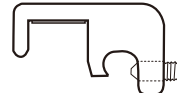
• 2 wire EQD wiring

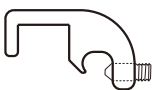
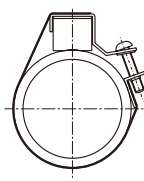
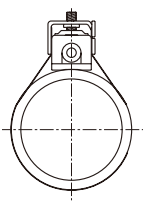
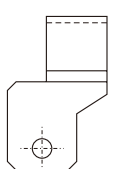


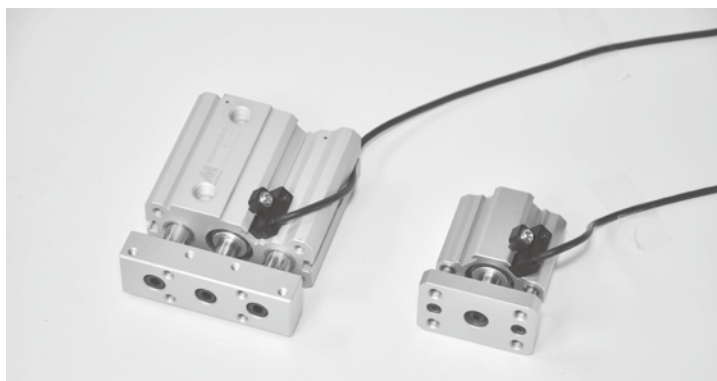
• 3 wire QD wiring



Assembling style

Cylinder type	MCQA					MCQV2 / MCBQV2			MCQV			
Mounting clamps	Hold					Hold						
Order	HV2	HV4	PM14	PM16	HA5	HV1	HV2	HV3	HV4	PM16	HA5V	
Cylinder tube I.D.	40,50,63	80,100	125	150	200	32,40	50,63	80,100	125	160	200	
Pictures												
	<div>HA*</div> 					<div>HV*</div> 			<div>PM*</div> 			

Cylinder type	MCBQV	MCQV2L		MCQN			MCKG*		MCKA	MSB* ø50
Mounting clamps	Hold	Hold		Hold			Band		Band	Hold
Order	HV4	HV2	HV3	HV1	HV2	HV3	BGA50	BGA63	PN-A40	HS
Cylinder tube I.D.	125	63	80	40	50,63	80,100	50	63	40	50
Pictures	<div style="text-align: center;"> HV*  </div>									



Order example

RCB — □

MODEL

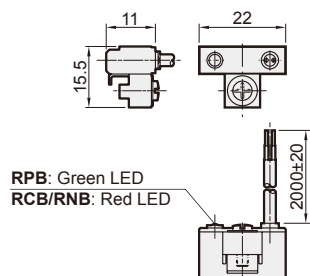
C: Reed switch
N: NPN
P: PNP

WIRE LENGTH

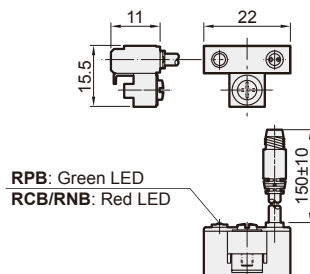
Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

Dimension

RCB/RNB/RPB

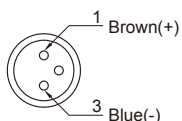


RCB-QD/RNB-QD/RPB-QD

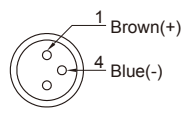


Wiring of the QD

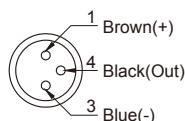
• 2 wire
QD wiring



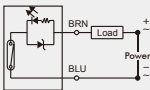
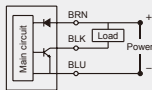
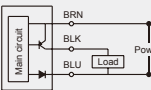
• 2 wire
EQD wiring



• 3 wire
QD wiring



Specification

Model	RCB	RNB	RPB
Wiring method	2 wire	3 wire	
Switching logic	SPST normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	6W max.	
Current consumption	—	22 mA@24V DC max.	20 mA@24V DC max.
Voltage drop	3.5V max.	0.5V max.	
Leakage current	—	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70℃ (No freezing)		
Shock (*2)	30G	50G	
Vibration (*3)	9G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	1	3,4	
Weight	33 g (2m cable)		
Connect diagram			

*1. Warning: Never exceed rating (watt=voltage×amperage). Permanent damage to sensor will occur.

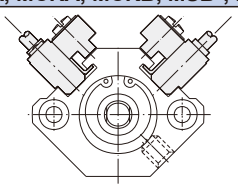
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.

*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. Caution for safety please refer to page 8-8~9.

Assembling style

Cylinder type	MCJA, MCJQ, MCJQ2, MCGA, MCGJ, MCDA, MCRA, MCKB, MSB*, MSLD
Mounting clamp	

RCD series

SENSOR SWITCH



Rotary Actuator

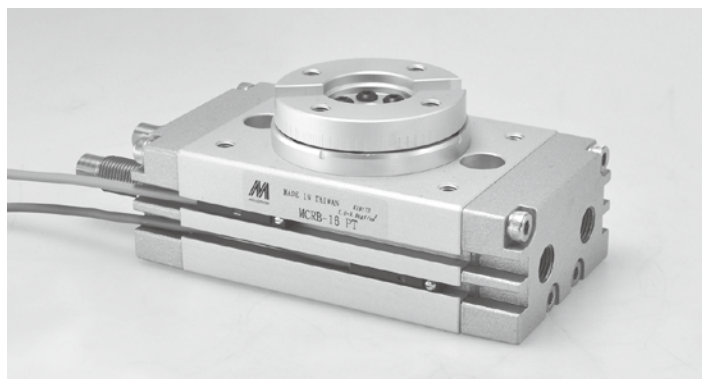
Clamp Cylinder

Gripper

Electric Actuator

Auxiliary Equipment

Hydraulic Cylinder



Order example

RCD — □

MODEL

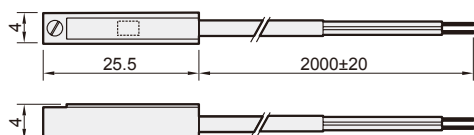
C: Reed switch
N: NPN
P: PNP

WIRE LENGTH

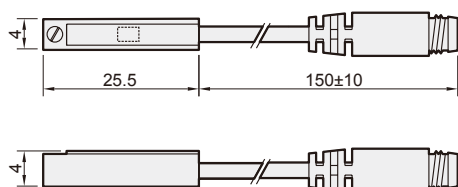
Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

Dimension

RCD/RND/RPD

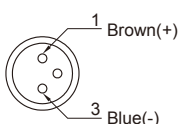


RCD-QD/RND-QD/RPD-QD

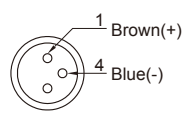


Wiring of the QD

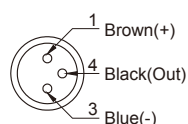
• 2 wire
QD wiring



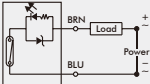
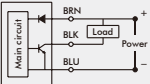
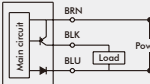
• 2 wire
EQD wiring



• 3 wire
QD wiring



Specification

Model	RCD	RND	RPD
Wiring method	2 wire	3 wire	
Switching logic	SPST normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Contact rating (*1)	10W max.	6W max.	
Current consumption	—	8 mA@24V DC Max	
Voltage drop	3.5V max.	1V@200mA Max	
Leakage current	—	0.01mA Max	
Indicator	Red LED	Red LED	Green LED
Cable	ø2.8, 2C, PUR	ø2.8, 3C, PUR	
Temperature range	-10~+70°C (No freezing)		
Shock (*2)	30G	50G	
Vibration (*3)	9 G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	1	2, 3, 4	
Weight	20 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

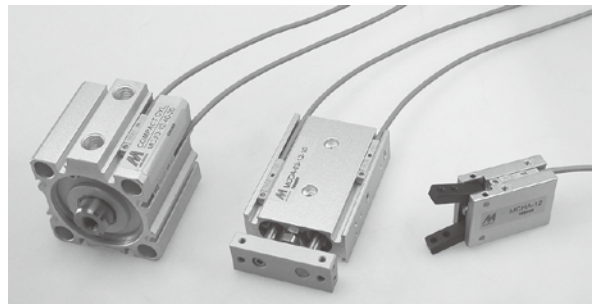
*5. Caution for safety please refer to page 8-8~9.

Assembling style

Cylinder type	MCRB, MCRPMS, MCRB
Mounting clamp	

RCE / RCE1 series

SENSOR SWITCH



Order example

RCE1 — ☐

MODEL

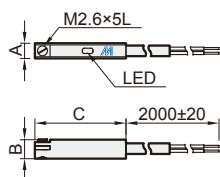
RCE: Reed Switch
RCE1: Reed Switch
RNE: NPN
RPE: PNP
RDE: Non-contact
RDE-D: Non-contact, two indicators * Special order is available.

WIRE LENGTH

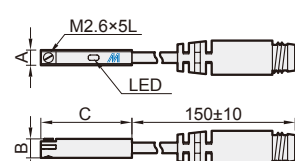
Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector

Dimension

Standard lead wire

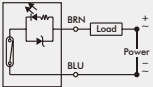
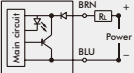
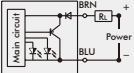
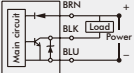


QD connector



MODEL	A	B	C
RCE / RDE / RDE-D	4	5	24
RCE1 / RNE / RPE	4.1	4.65	22

Specification

Model	RCE	RCE1	RDE	RDE-D	RNE	RPE
Wiring method	2 wire				3 wire	
Switching logic	SPST normally open				Solid state output, normally open	
Switch Type	Reed switch		Non-contact		NPN current sinking	PNP current sourcing
Operating voltage	5~220V DC/AC	5~120V DC/AC	10~28V DC		5~30V DC	
Switching current	50mA max.	100mA max.	50mA max.	80mA max.	500mA max.	
Switching rating(*1)	10W max.		1.5W max.	2W max.	1.5W max.	
Current consumption	—				10 mA@24V DC max.	12 mA@24V DC max.
Voltage drop	3.5V max.			4V max.	0.5V max.	1.5V max.
Leakage current	—		0.1mA max.	1mA max.	0.01mA max.	
Indicator (LED)	Red			Red/Green	Red	Green
Cable	ø2.8,2C,PUR	ø2.8,2C,PU	ø2.8,2C,PUR		ø3.3, 3C, PU	
Temperature range	-10~+70°C (No freezing)					
Shock (*2)	30G		50G			
Vibration (*3)	9G					
Enclosure classification	IEC 60529 IP67					
Protection circuit (*4)	1		3,4	2,3,4	3,4	
Weight	20 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. Caution for safety please refer to the page 8-8~9.

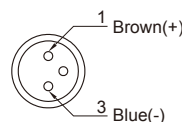
Assembling style

Cylinder type	MCJA, MCJQ, MCKJQ, MCFA, MCGB, MCGS, MCGD, MCGJ, MCG3, MCDA, MCSH, MCSS, MCSQ, MCSF, MCRPMD, MCRA, MCKB, MCKC, MCHA, MCHB, MCHC, MSB*, MSL*
Mounting clamp	

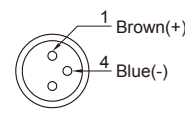
* RDE not applicable to MCSS-6/8, MCSQ.

Wiring of the QD

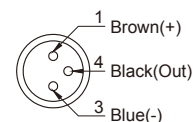
• 2 wire
QD wiring

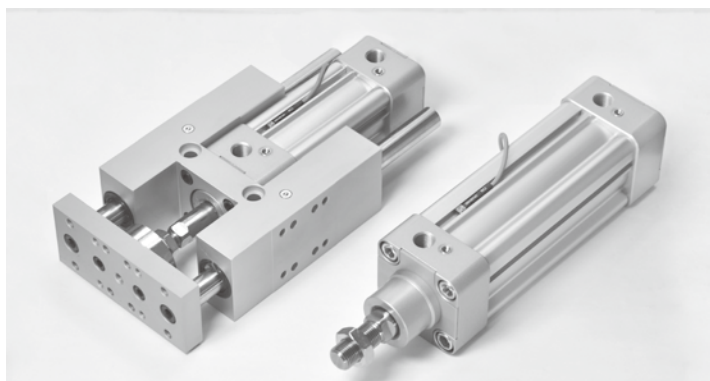


• 2 wire
EQD wiring



• 3 wire
QD wiring





Order example

RCI — N — □

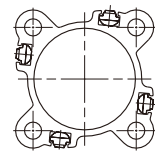
MODEL

RCI: Reed Switch
RCI-N: Reed Switch (NPN)
RCI-P: Reed Switch (PNP)
RNI: NPN
RPI: PNP

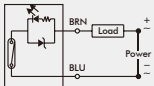
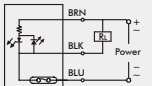
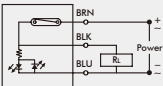
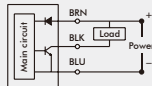
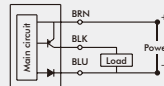
WIRE LENGTH

Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

Assembling style

Cylinder type	MCQI2, MCKQI2, MCBQI2, MCJI, MCGI, MGTTB, MGTTU, MGTTX, METB
Mounting clamp	

Specification

Model	RCI	RCI-N	RCI-P	RNI	RPI
Wiring	2 wire	3 wire		3 wire	
Switching logic	Normal open				
Switch Type	Reed switch			NPN current sinking	PNP current sourcing
Voltage range	5~240V DC/AC	10~30V DC		10~30V DC	
Current range	100mA max.	500mA max.		200mA max.	
Contact rating(*1)	10W max.			6W max.	
Current consumption	—	5 mA@24V DC max.		20 mA@24V DC max.	
Voltage drop	3.5V max.	0.1V@100mA max.		1.5V max.	
Leakage current	—	—	—	0.05mA max.	
Indicator	Red LED	Yellow LED		Red LED	Yellow LED
Cable	ø3,2C,PUR	ø3,3C,PUR		ø3,3C,PUR	
Temperature	-10~+70°C (No freezing)				
Shock (*2)	30G			50G	
Vibration (*3)	9G				
Protection classification	IEC 60529 IP67				
Protection circuit (*4)	1			2,3,4	
Weight	23 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.

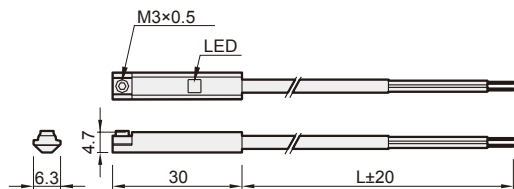
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.

*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression

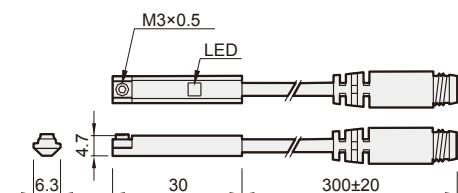
*5. Caution for safety please refer to page 8-8~9.

Dimension

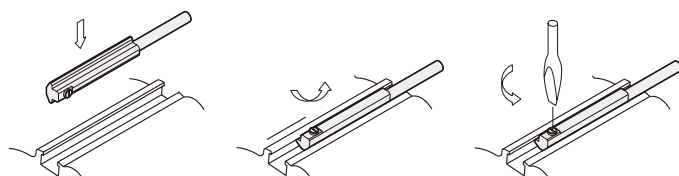
RCI-*/RNI/RPI



RCI-*-QD/RNI-QD/RPI-QD

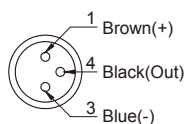
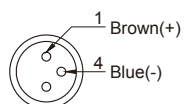
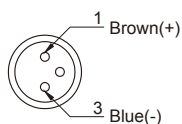


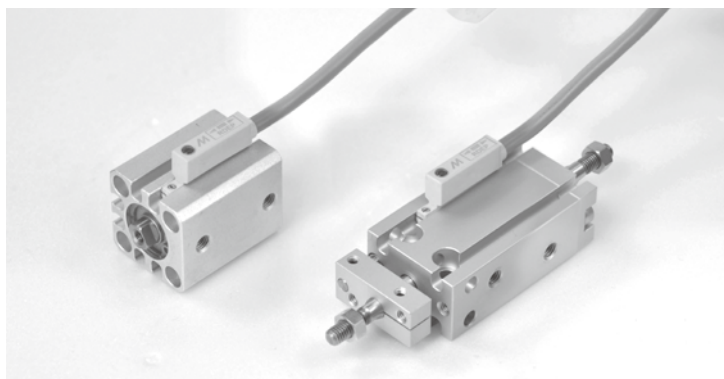
Mounting



Wiring of the QD

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





Application environment

- **RDEP** can be applied in the strong magnetic field environment such as automotive manufacturing or areas near welding machine.
- When **RDEP** detects the magnetic AC field (50 or 60Hz) it will keep the status of output and will not be effected.

Order example

RDEP — 

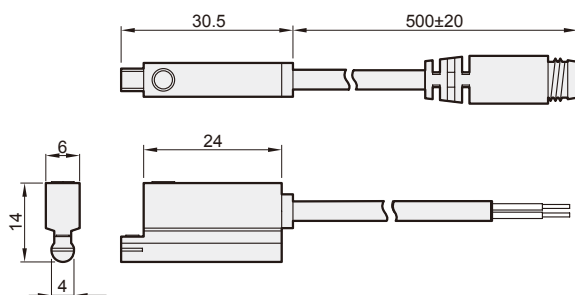
MODEL

WIRE LENGTH

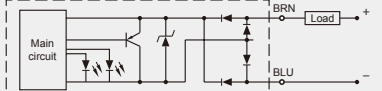
Blank: 3000mm

QD: M12 4PIN connector

Dimension



Specification

Model	RDEP
Wiring method	2 wire
Switching logic	Solid state output, normally open
Switch type	Current sourcing
Operating voltage	10~28V DC
Switching current	5~50mA max.
Switching rating (*1)	1.5W max.
Current consumption	—
Voltage drop	5V max.
Leakage current	1mA max.
Indicator	Unstable: Red LED ; Stable: Green LED
Cable	ø4.8, 2C, PVC
Temperature range	-10°C~+60°C (No freezing)
Shock (*2)	50G
Vibration (*3)	9G
Enclosure classification	IEC 60529 IP67
Protection circuit (*4)	3, 4
Weight	100 g (3m 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.

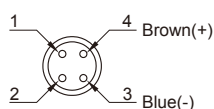
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.

*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression

*5. Caution for safety please refer to page 8-8~9.

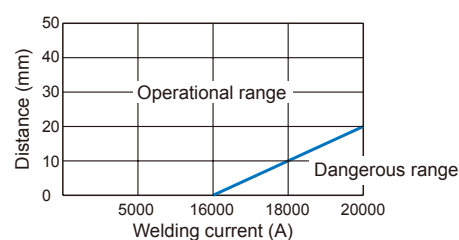
Wiring of the QD

- 2 wire

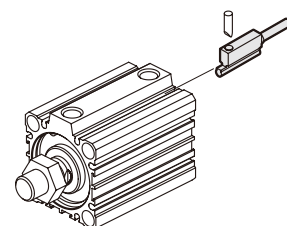


Weld-field immune

The operational distance can be 0mm between sensor and welding gun (welding conductor or cable) when the welding current less than 16000A.



Assembling style

Cylinder type	MCJA, MCJQ, MCKJQ, MCFA, MCGB, MCGS, MCGD, MCGJ, MCG3, MCDA, MCSS, MCSH, MCSQ, MCRA, MCKB, MCKC, MSB*, MSL*
Mounting clamp	



Order example

RDFV — □

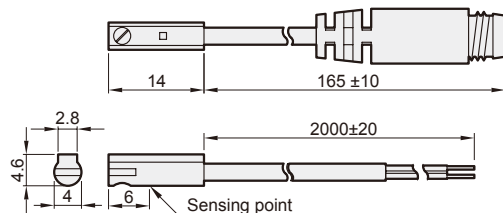
AUTO SWITCH TYPE
Blank: Straight cable
V: Angle cable

WIRE LENGTH
Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

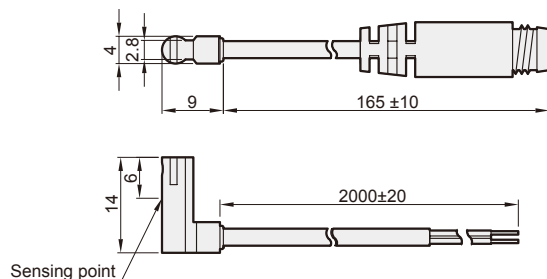
MODEL
D: 2 wire (solid state type)
N: 3 wire (NPN current sinking)
P: 3 wire (PNP current sourcing)

Dimension

RDF / RNF / RPF
RDF-QD / RNF-QD / RPF-QD



RDFV / RNFV / RPFV
RDFV-QD / RNFV-QD / RPFV-QD



Specification

Model	RDF / RDFV	RNF / RNFV	RPF / RPFV
Wiring method	2 wire	3 wire	
Switching logic	Solid state output, Normally open		
Switch Type	—	NPN current sinking	PNP current sourcing
Operating voltage	10~28V DC	4.5~28V DC	
Switching current	4~20mA max.	50mA max.	
Contact rating(*1)	0.6W max.	1.5W max.	
Current consumption	—	10mA @ 24V max.	
Voltage drop	3.5V max.	0.5V @ 50mA max.	
Leakage current	0.8mA max.	0.01mA max.	
Indicator	Red LED		
Cable	ø2.6, 2C, PVC	ø2.6, 3C, PVC	
Temperature range	-10℃~+70℃ (No freezing)		
Shock (*2)	50G		
Vibration (*3)	9G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	4	3,4	
Weight	12.8 g (1m cable) / 23.8 g (2m cable)		
Connect diagram	<div></div> <div></div> <div></div>		

*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

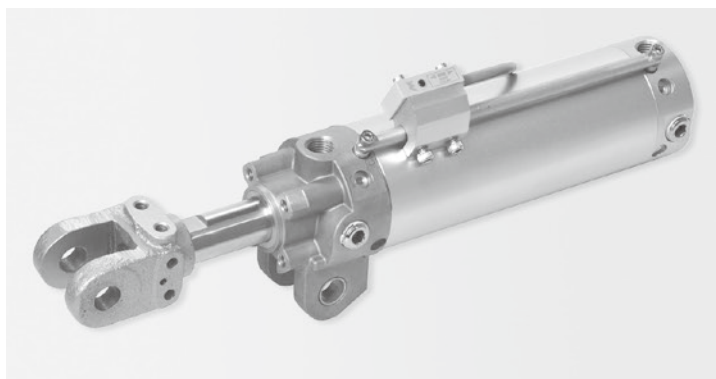
*5. Caution for safety please refer to the page 8-8~9.

Assembling style

Cylinder type	MCJU, MCFB, MCMJP, MCDJ, MCHD, MCHU, MCHG2, MCHX, MCRQ, MCRQ-S, MCHJ, MCHS, MCHT
Mounting clamp	

Wiring of the QD

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



Application environment

- **RDKP** can be applied in the strong magnetic field environment such as automotive manufacturing or areas near welding machine.
- When **RDKP** detects the magnetic AC field (50 or 60Hz) it will keep the status of output and will not be effected.

Order example

RDKP — □

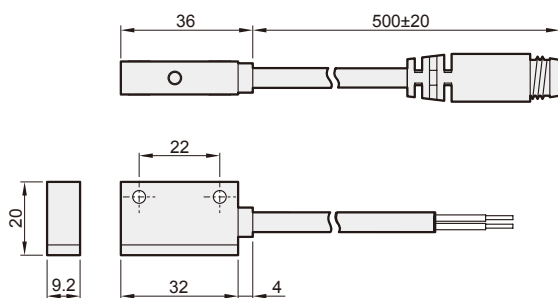
MODEL

WIRE LENGTH

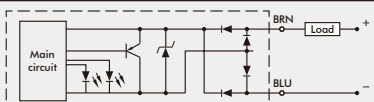
Blank: 3000mm

QD: M12 4PIN connector

Dimension



Specification

Model	RDKP
Wiring method	2 wire
Switching logic	Solid state output, normally open
Switch type	Current sourcing
Operating voltage	10~28V DC
Switching current	5~50mA max.
Switching rating (*1)	1.5W max.
Current consumption	—
Voltage drop	5V max.
Leakage current	1mA max.
Indicator	Unstable: Red LED ; Stable: Green LED
Cable	ø5.4, 2C, PVC
Temperature range	-10°C~+60°C (No freezing)
Shock (*2)	30G
Vibration (*3)	9G
Enclosure classification	IEC 60529 IP67
Protection circuit (*4)	3, 4
Weight	120 g (3m 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.

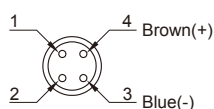
*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.

*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression

*5. Caution for safety please refer to page 8-8~9.

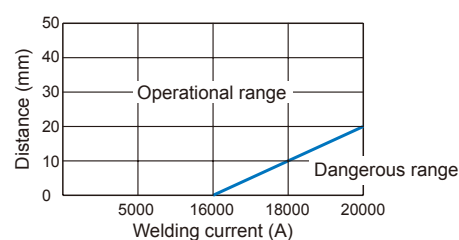
Wiring of the QD

- 2 wire

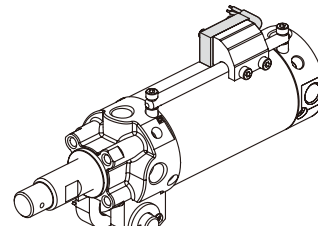


Weld-field immune

The operational distance can be 0mm between sensor and welding gun (welding conductor or cable) when the welding current less than 16000A.



Assembling style

Cylinder type	MCKG*
Mounting clamp	



Order example

RHN — □

MODEL

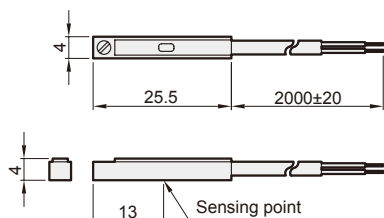
Blank: Reed Switch
N: NPN
P: PNP

WIRE LENGTH OF CABLE

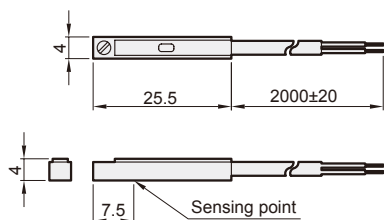
Blank: L=2000mm
1M: L=1000mm
QD: M8 3PIN connector
EQD: M8 3PIN connector
* Special order is available.

Dimension

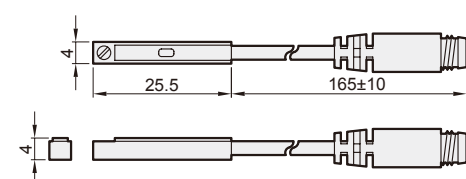
RH



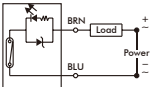
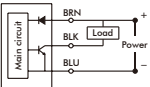
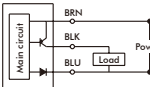
RHN / RHP



RH-QD / RHN-QD / RHP-QD



Specification

Model	RH	RHN	RHP
Wiring method	2 wire	3 wire	
Switching logic	SPST normally open	Solid state output, normally open	
Switch type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	6W max.	
Current consumption	—	8 mA@24V max.	
Voltage drop	3.5V max.	1V@200 mA max.	
Leakage current	—	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	ø2.8, 2C, PUR	ø2.8, 3C, PUR	
Temperature range	-10~+70°C (No freezing)		
Shock (*2)	30G	50G	
Vibration (*3)	9G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	1	1, 3, 4	
Connect diagram			

*1. Warning: Never exceed rating (watt=voltage×amperage).

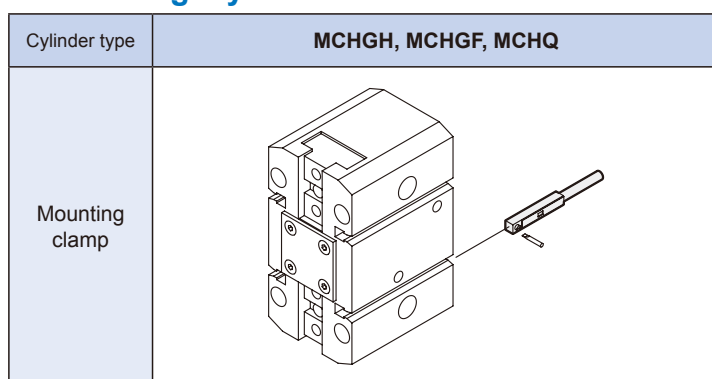
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.

*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

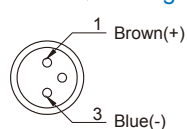
*5. Caution for safety please refer to the page 8-8~9.

Assembling style

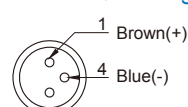


Wiring of the QD

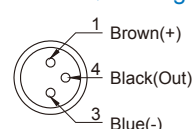
• 2 wire QD wiring



• 2 wire EQD wiring



• 3 wire QD wiring





Order example

RKN — □

MODEL

Blank: Reed Switch
N: NPN
P: PNP

WIRE LENGTH OF CABLE

Blank: L=2000mm

1M: L=1000mm

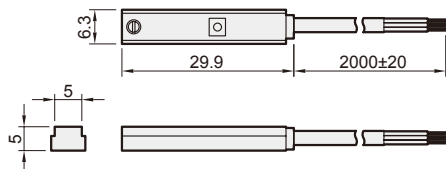
QD: M8 3PIN connector

EQD: M8 3PIN connector

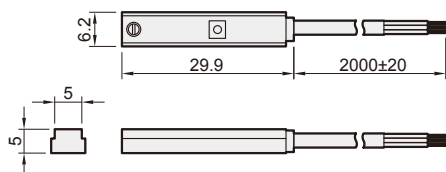
* Special order is available.

Dimension

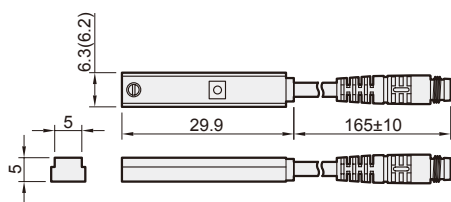
RK



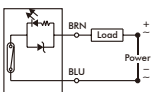
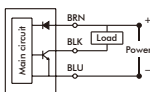
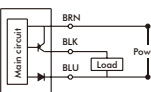
RKN / RKP



RK-QD / RKN-QD / RKP-QD



Specification

Model	RK	RKN	RKP
Wiring method	2 wire	3 wire	
Switching logic	SPST normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240V DC/AC	10~30V DC	
Switching current	100mA max.		
Switching rating(*1)	10W max.	3W max.	
Current consumption	—	17mA@24V DC max.	8mA@24V DC max.
Voltage drop	3.5V max.	1.5V max.	
Leakage current	—	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70°C (No freezing)		
Shock (*2)	30G	50G	
Vibration (*3)	9G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	1	2, 3, 4	
Connect diagram			

*1. Warning: Never exceed rating (watt=voltage×amperage).

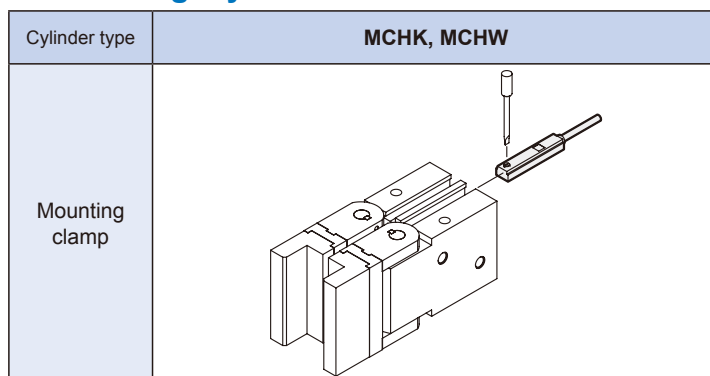
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.

*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

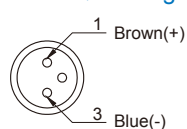
*5. Caution for safety please refer to the page 8-8~9.

Assembling style

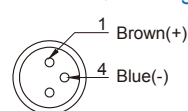


Wiring of the QD

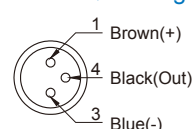
• 2 wire QD wiring



• 2 wire EQD wiring

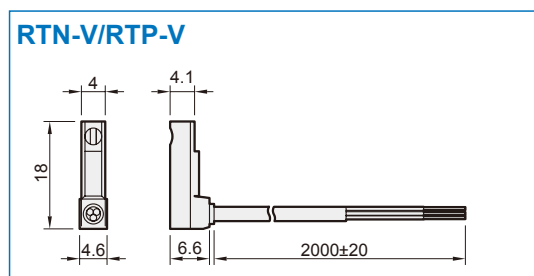
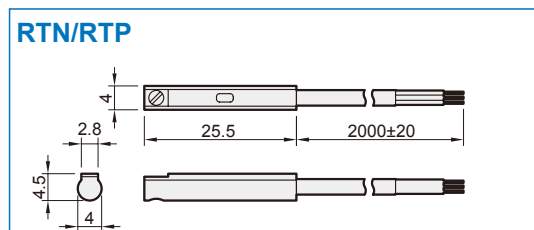
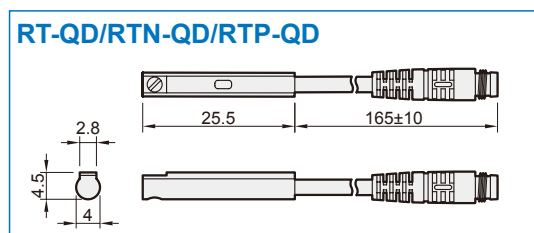
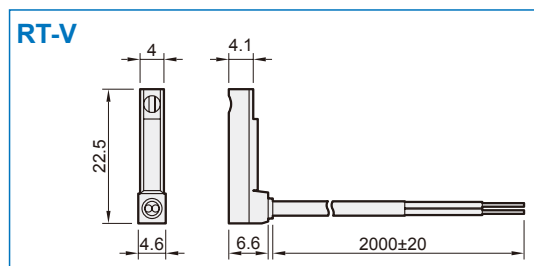
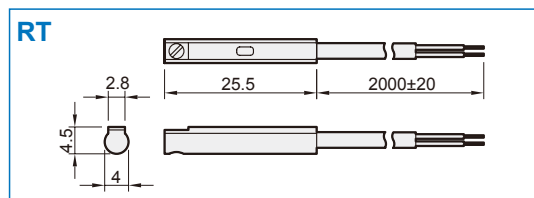


• 3 wire QD wiring

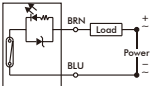
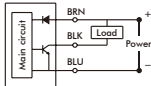
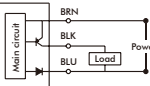




Dimension



Specification

Model	RT	RTN	RTP
Wiring method	2 wire	3 wire	
Switching logic	SPST normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating (*1)	10W max.	6W max.	
Current consumption	—	8mA @24V DC max.	
Voltage drop	3.5V max.	1V@200mA max.	
Leakage current	—	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	ø2.8, 2C, PUR	ø2.8, 3C, PUR	
Temperature range	-10~+70°C (No freezing)		
Shock (*2)	30G	50G	
Vibration (*3)	9 G		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*4)	1	2, 3, 4	
Connect diagram			

*1. Warning: Never exceed rating (watt=voltage×amperage).

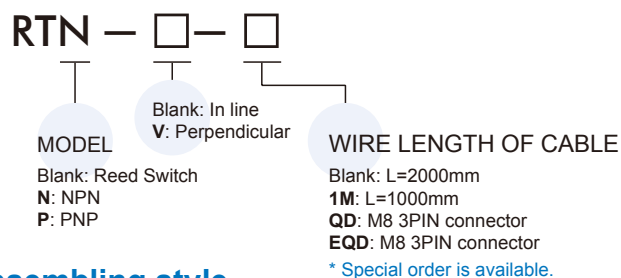
*2. Sin wave / X.Y.Z. 3 directions / 3 times each direction / 11ms each time.

*3. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X.Y.Z. 3 directions / 1 hour each time.

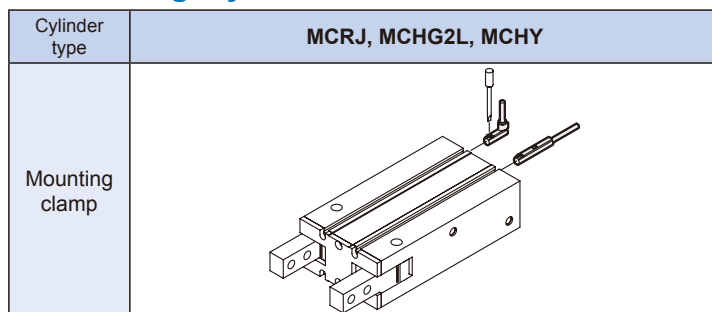
*4. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression

*5. Caution for safety please refer to the page 8-8~9.

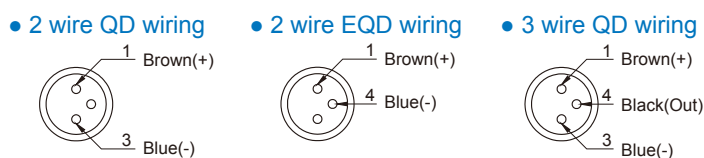
Order example



Assembling style



Wiring of the QD

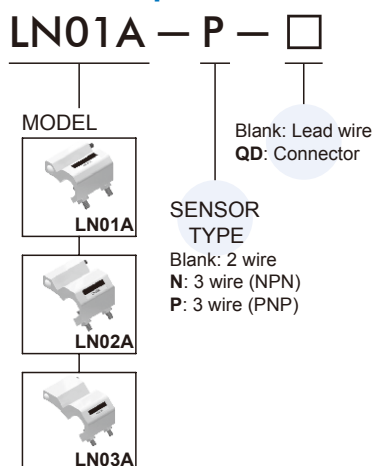


LN01A series

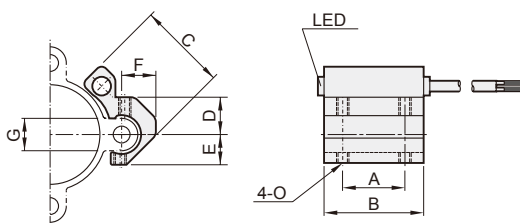
SENSOR SWITCH



Order example

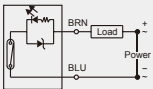
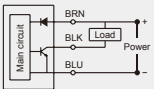
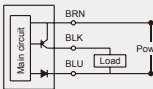


Dimension



Model	A	B	C	D	E	F	G	O
LN01A	20	32	28.5	12	9.8	11	10.5	M4
LN02A	20	32	37.5	15	13.5	12	13.5	M4
LN03A	20	32	56	18	15	14	17	M4

Specification

Model	LN0*A	LN0*A-N	LN0*A-P
Wiring method	2 wire	3 wire	
Switching logic	Normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240V DC/AC	10~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	6W max.	
Current consumption	—	OFF:7mA(24V) ON:20mA(24V) max.	
Voltage drop	3V max.	0.5V@200mA max.	
Indicator	Red LED		Green LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70°C (No freezing)		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*2)	1	3, 4	
Symbol			

*1. Warning: Never exceed rating (watt=voltage×amperage).

*2. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression.

*3. Caution for safety please refer to page 8-8~9.

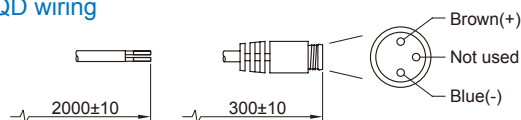
Assembling style

Cylinder type	MRT*			MHBS / MHBD		
Order	LN01A	LN02A	LN03A	LN02A	LN03A	
Tube I.D.	40	63	80	078*	110*	250*
Mounting clamp						

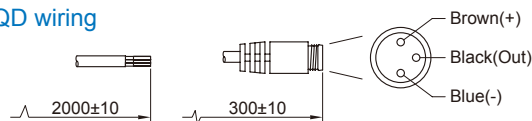
* Intensified pressure ratio

Wiring of the QD

• 2 wire QD wiring

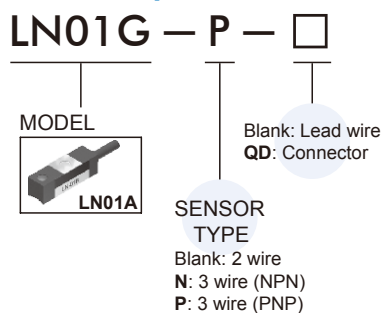


• 3 wire QD wiring

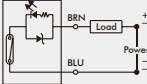
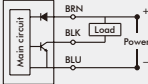
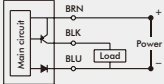




Order example



Specification

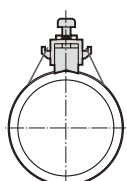
Model	LN01G	LN01G-N	LN01G-P
Wiring method	2 wire	3 wire	
Switching logic	Normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	6W max.	
Current consumption	—	OFF:7mA(24V) ON:20mA(24V) max.	
Voltage drop	3V max.	0.5V@200mA max.	
Indicator	Red LED		Green LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70°C (No freezing)		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*2)	1	3, 4	
Symbol			

*1. Warning: Never exceed rating (watt=voltage×amperage).

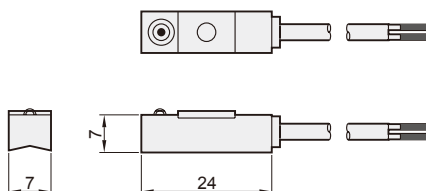
*2. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression.

*3. Caution for safety please refer to page 8-8~9.

Assembling style

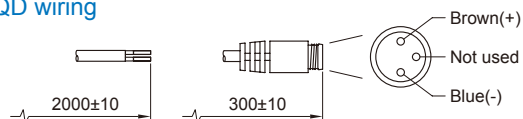
Cylinder type	MDO*	
Order	LN01G	
Tube I.D.	20	32
Mounting clamp		

Dimension

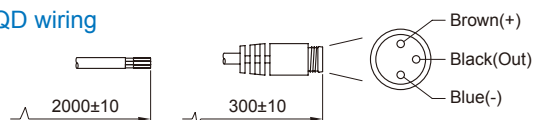


Wiring of the QD

• 2 wire QD wiring



• 3 wire QD wiring





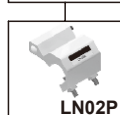
Order example

LN01P — AN — □

MODEL



LN01P



LN02P



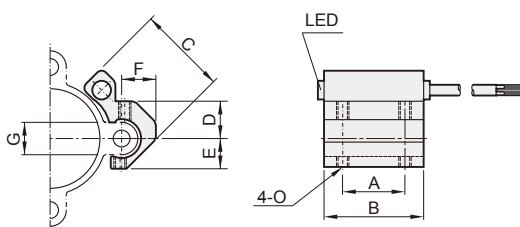
LN03P

SENSOR TYPE

Blank: 2 wire
AN: 3 wire (NPN)
AP: 3 wire (PNP)

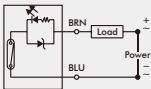
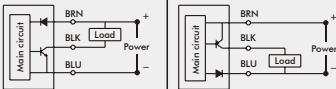
Blank: Lead wire
QD: Connector

Dimension



Model	A	B	C	D	E	F	G	O
LN01P	20	32	28.5	12	9.8	11	10.5	M4
LN02P	20	32	37.5	15	13.5	12	13.5	M4
LN03P	20	32	56	18	15	14	17	M4

Specification

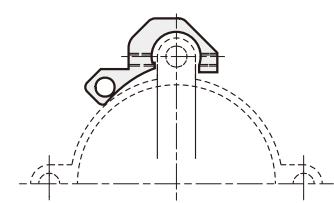
Model	LN0*P	LN0*P-AN	LN0*P-AP
Wiring method	2 wire	3 wire	
Switching logic	Normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	10~220V DC/AC	5~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	6W max.	
Current consumption	—	OFF:7mA(24V) ON:20mA(24V) max.	
Voltage drop	3V max.	0.5V@200mA max.	
Indicator	Red LED		Green LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70°C (No freezing)		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*2)	1	3, 4	
Symbol			

*1. Warning: Never exceed rating (watt=voltage×amperage).

*2. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression.

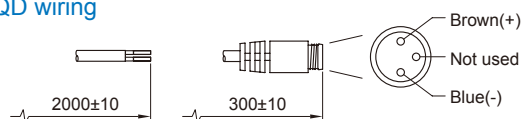
*3. Caution for safety please refer to page 8-8~9.

Assembling style

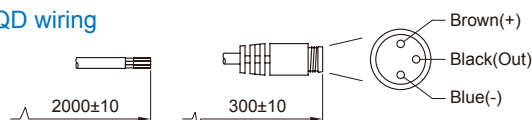
Cylinder type	MDM*					MRPH	
Order	LN01P	LN02P	LN03P	LN03P	LN03P	LN01P	
Tube I.D.	40	50	63	80	100	32	40
Mounting clamp							

Wiring of the QD

• 2 wire QD wiring

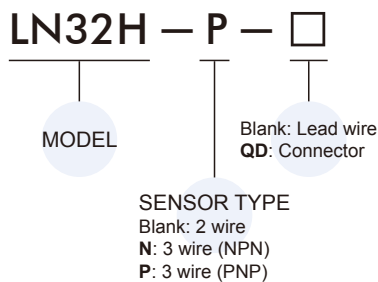


• 3 wire QD wiring

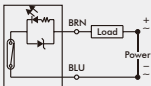
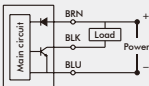
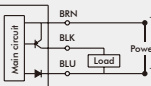




Order example



Specification

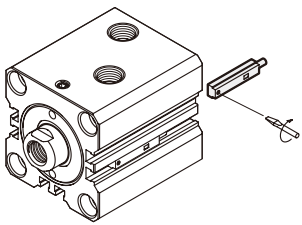
Model	LN32H	LN32H-N	LN32H-P
Wiring method	2 wire	3 wire	
Switching logic	Normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sinking
Operating voltage	5~240V DC/AC	10~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	3W max.	
Current consumption	—	OFF:7mA(24V) ON:17mA(24V) max.	
Voltage drop	3.5V max.	2.0V max.	
Indicator	Red LED		Yellow LED
Cable	ø3.3, 2C, PVC	ø3.3, 3C, PVC	
Temperature range	-10~+70℃ (No freezing)		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*2)	1	3, 4	
Symbol			

*1. Warning: Never exceed rating (watt=voltage×amperage).

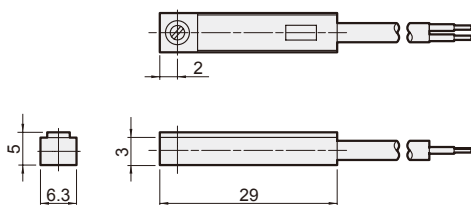
*2. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression.

*3. Caution for safety please refer to page 8-8~9.

Assembling style

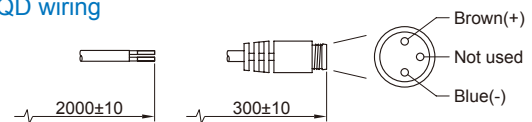
Cylinder type	MHCB-M				
Order	LN32H				
Tube I.D.	25	32	40	50	63
Mounting clamp					

Dimension

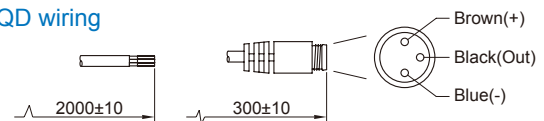


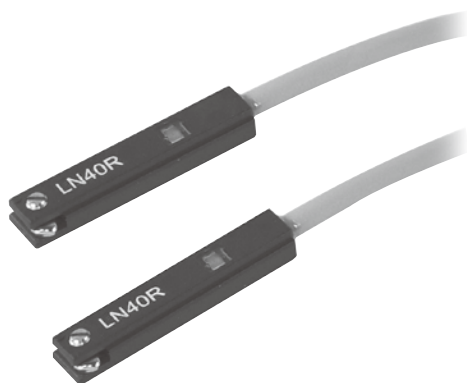
Wiring of the QD

• 2 wire QD wiring

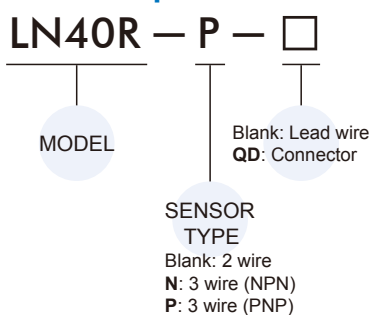


• 3 wire QD wiring

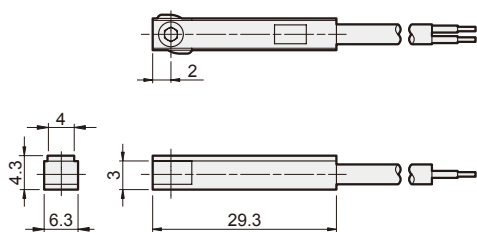




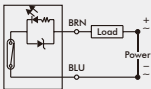
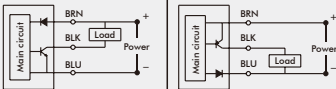
Order example



Dimension



Specification

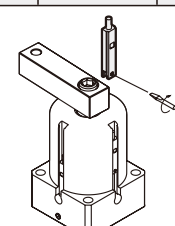
Model	LN40R	LN40R-N	LN40R-P
Wiring method	2 wire	3 wire	
Switching logic	Normally open	Solid state output, normally open	
Switch Type	Reed switch	NPN current sinking	PNP current sinking
Operating voltage	5~120V DC/AC	50~30V DC	
Switching current	100mA max.	200mA max.	
Switching rating(*1)	10W max.	3W max.	
Current consumption	—	OFF:7mA(24V) ON:17mA(24V) max.	
Voltage drop	2.5V max.	1.5V@100mA max.	
Indicator	Red LED		Yellow LED
Cable	ø3, 2C, PVC	ø3, 3C, PVC	
Temperature range	-10~+70°C (No freezing)		
Enclosure classification	IEC 60529 IP67		
Protection circuit (*2)	1	3, 4	
Symbol			

*1. Warning: Never exceed rating (watt=voltage×amperage).

*2. 1=None / 2=Short-circuit / 3=Power source reverse polarity / 4=Surge suppression.

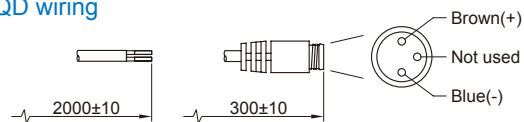
*3. Caution for safety please refer to page 8-8~9.

Assembling style

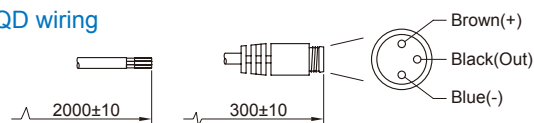
Cylinder type	MTA*				
Order	LN40R				
Tube I.D.	25	32	40	50	63
Mounting clamp					

Wiring of the QD

• 2 wire QD wiring

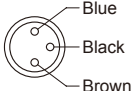
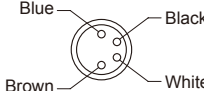


• 3 wire QD wiring





Specification

Model	M83R / M83RL		M84R / M84RL	
Female pinout				
Number of contacts	3		4	
Rated voltage	60V DC/AC			
Rated current	3A			
Contact material	Gold plated brass			
Contact bearer material	PA			
Housing material	PP			
Housing color	Black			
Cable material	ø4.5, PVC	ø4.5, PUR	ø4.5, PVC	ø4.5, PUR
Cable color	Gray	Black	Gray	Black
Temperature	-20°C~-+80°C (No freezing)			
Cable conductor	24AWG			
Protection class	IEC60529 IP 67			

Order example

M83R — PVC — □

MODEL
M83: M8, 3PIN
M84: M8, 4PIN

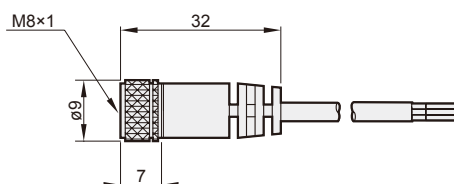
CABLE MATERIAL
PVC: ø4.5 PVC cable
PUR: ø4.5 PUR cable

CABLE LENGTH
Blank: 2000mm
3M: 3000mm
5M: 5000mm

CONNECTOR SERIES
R: Straight
RL: 90° right angle

Dimension

• Straight (M83R/ M84R)



• 90° Right angle (M83RL/ M84RL)

