

Cylinder switches

Type-C

Magnetic position sensor

Order example

RLG — 3N — 

MODEL **3N: 3 NPN**
3P: 3 PNP **WIRE**
LENGTH

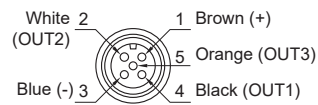
2M: L=2000mm

QD: M12, 5 Pin connector

* Special order is available.

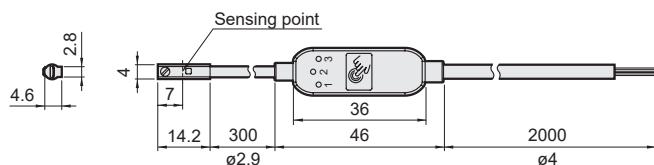
Wiring of the QD

• 5 wire QD wiring

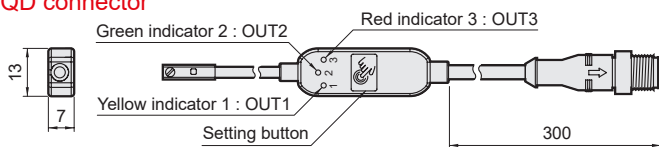


Dimension

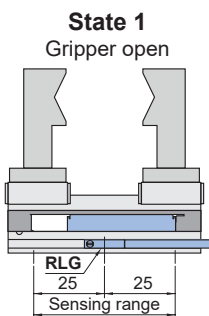
Standard lead wire



QD connector



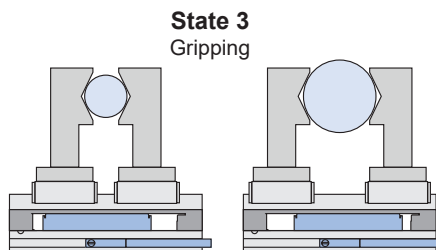
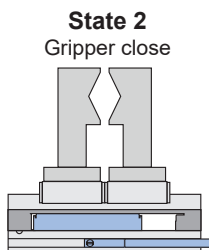
Setting example



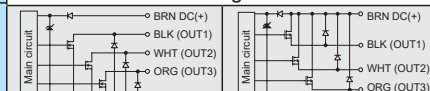
Setting procedure example for state 3

1. Press button once, then long press until three indicators flash.
2. Keep press button till indicator 3 flashes, then adjust gripper to gripping position.
3. Long press button to finish.

* Check manual for more details.



Specification

Model	RLG-3N	RLG-3P
Measuring range (*1)	50 mm	
Switching logic	Solid state output, normally open / normally close switchable	
Switch type	3 NPN current sinking	3 PNP current sourcing
Operating voltage	5 ~ 30 V DC	
Switching current (*2)	150 mA max.	
Power supply voltage (*2)	30 V DC	
Contact rating (*2)	4.5 W max.	
Current consumption	20 mA @ 24 V DC max.	
Voltage drop (*2)	1.5 V max. (with resistive load)	
Leakage current	0.01 mA max.	
Repeatability	≤ 0.01 mm	
Indicator	Yellow LED, Green LED, Red LED	
Cable	ø4 PVC - 26 AWG (0.15mm²) - 5 cores	
Operating frequency	50 Hz	
Magnet requirement (*3)	40 ~ 1000 Gauss	
Temperature range	-10 ~ 70 °C	
Shock (*4)	50 G	
Vibration (*5)	9 G	
Enclosure classification	IEC 60529 IP69	
Protection circuit (*6)	2, 3, 4	
Weight	54 g	
Connect diagram		

*1. The difference of magnetism, environment, and interference of magnetic field can cause the deviation of measurement.

*2. The standard is for each output.

*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.

Order example of special cylinder

Standard model no. — XZ1

Suitable for RLG series

* Special cylinder, please contact us