RDGV series

SENSOR SWITCH

Mindman

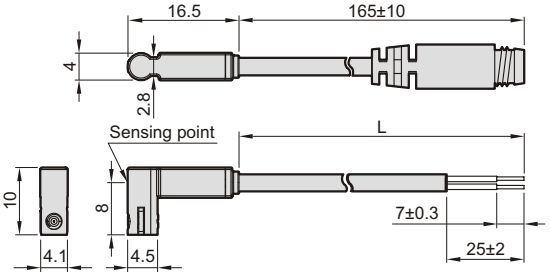
Order example

RDGV – □

- AUTO SWITCH TYPE
  - **V** : Angle cable
- Blank: Grommet lead wire
  - **QD**: Connector
- MODEL
  - **D** : 2 wire (solid state type)
  - **N** : 3 wire (NPN current sinking)
  - **P** : 3 wire (PNP current sourcing)

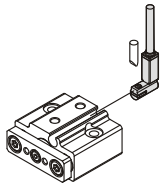
Dimension

RDGV / RNGV / RPGV
RDGV-QD / RNGV-QD / RPGV-QD

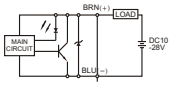
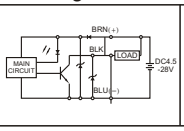
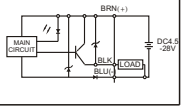


Cable length(L)	Tolerance range
L<1000	±10
1000≦L<3000	±20
3000≦L≦5000	±30
5000<L	±50

Assembling style

Cylinder type	MCFB, MCGS
Pictures	

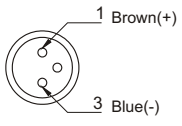
Specification

Model	RDGV	RNGV	RPGV
Wiring method	2 wire	3 wire	
Switch type	—	NPN current sinking	PNP current sourcing
Switching logic	Solid state output, Normally open		
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 DCmax.	
Voltage drop	3.5V max.	0.5V @ 50mA max.	
Leakage current	0.8mA max.	0.01mA max.	
Insulation resistance	DC 500V 100MΩ(Lead wire to case)		
Withstand voltage	AC 1000V(50/60Hz) 1minute(Lead wire to case)		
Operating Frequency	1000 Hz		
Sensitivity (※ 2)	40 Gauss		
Shock (※ 3)	50G		
Vibration (※ 4)	9G		
Temperature range	−10℃~+70℃ (No freezing)		
Cable (Gray PU)	2.6φ, 2C, 26AWG	2.6φ, 3C, 26AWG	
Lead wire length	2m		
Indicator lamp	LED lights up when ON		
Enclosure classification	IEC 529 IP67		
Indicator	Red LED		
Protection circuit	Surge suppression	Power source reverse polarity; Surge suppression	
Max. tightening torque	2 kgf.cm		
Connect diagram			

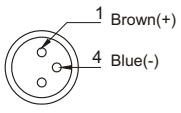
※1. Warning: Never exceed rating (watt=voltage×amperage). Permanent demage to sensor will occur.
※2. Measuring standard target : φ 15.5× φ 8×5t(Anisotropy rubber magnet).
※3. Sin wave / X.Y.Z. 3 Directions / 3 Times each direction / 11ms each time.
※4. Double amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) /X.Y.Z. 3 Directions / 1 Hour each time.
※5. Caution for safety please refer to the 2-03~04 page.

Wiring of the QD

- 2 wire QD wiring



- 2 wire EQD wiring



- 3 wire QD wiring