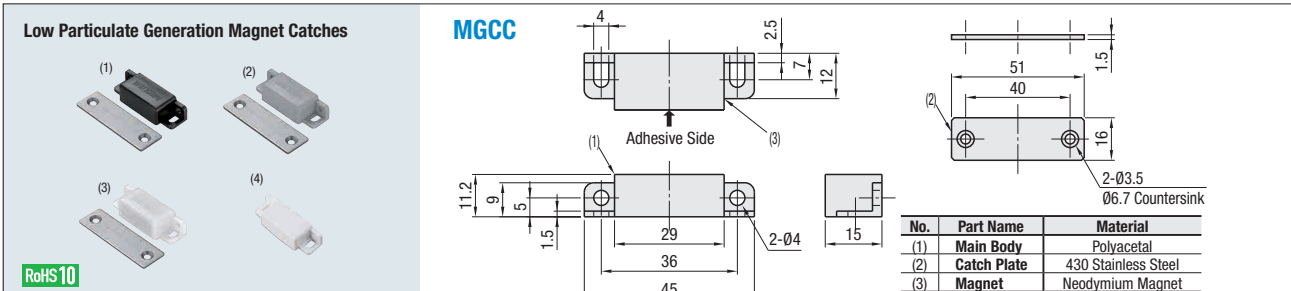


# Low Particulate Generation Magnetic / Resin Catches

Thin

**Low Particulate Generation Magnet Catches**



**MGCC**

No.	Part Name	Material
(1)	Main Body	Polyacetal
(2)	Catch Plate	430 Stainless Steel
(3)	Magnet	Neodymium Magnet

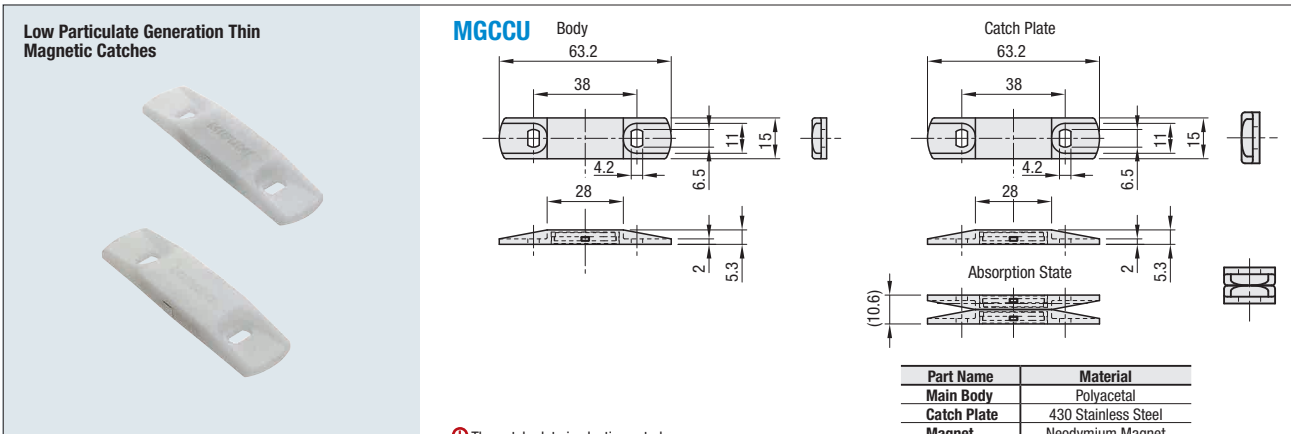
Part Number	Retention Force (kgf)	Mass (g)	Color
MGCC 1	1.0	21	(1) Black
MGCC 2	1.4	22	(2) Gray
MGCC 3	2.0	24	(3) White
MGCC 4	3.3	25	(4) White

**Features**

- The magnet encapsulated structure is effective for preventing rust and dust intrusions.
- These magnetic catches are the best suited for use in clean rooms.

Part Number Example: MGCC3

**Low Particulate Generation Thin Magnetic Catches**



**MGCCU**

Part Name	Material
Main Body	Polyacetal
Catch Plate	430 Stainless Steel
Magnet	Neodymium Magnet

Ⓢ The catch plate is plastic coated.

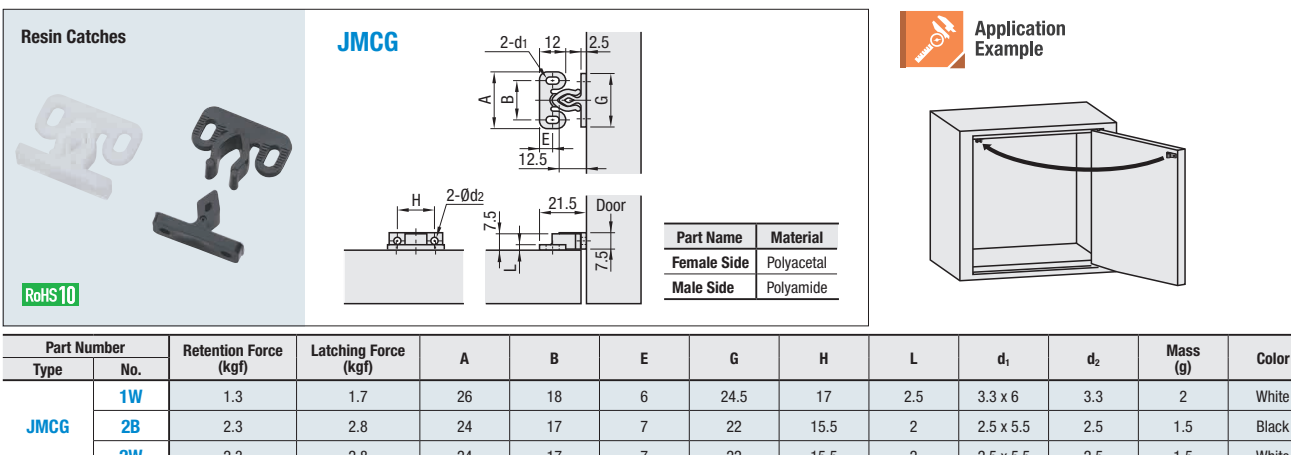
Part Number	Retention Force (kgf)	Mass (g)
MGCCU 1	1	14

**Features**

Catch plate is also plastic coated to reduce particle generation further.

Part Number Example: MGCCU1

**Resin Catches**



**JMCG**

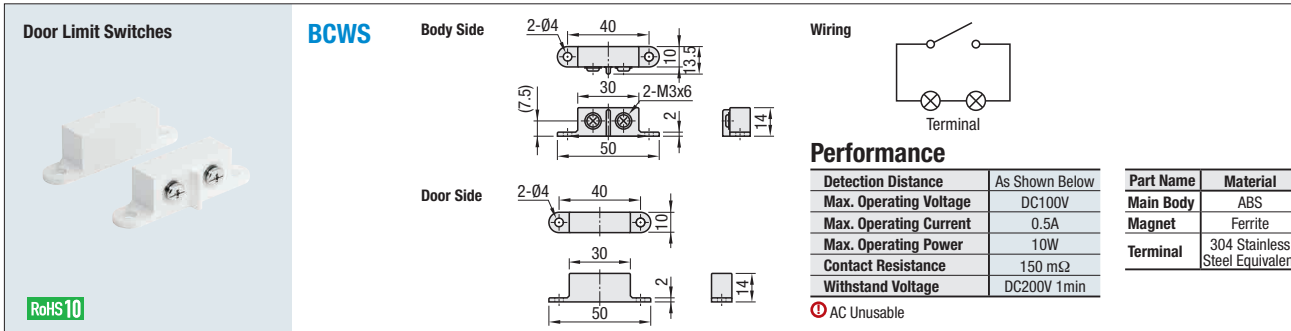
Part Name	Material
Female Side	Polyacetal
Male Side	Polyamide

Part Number	Retention Force (kgf)	Latching Force (kgf)	A	B	E	G	H	L	d <sub>1</sub>	d <sub>2</sub>	Mass (g)	Color
JMCG 1W	1.3	1.7	26	18	6	24.5	17	2.5	3.3 x 6	3.3	2	White
JMCG 2B	2.3	2.8	24	17	7	22	15.5	2	2.5 x 5.5	2.5	1.5	Black
JMCG 2W	2.3	2.8	24	17	7	22	15.5	2	2.5 x 5.5	2.5	1.5	White

Part Number Example: JMCG1W

# Door Limit Switches / Terminal Type / Magnetic Catches with Sensors

**Door Limit Switches**



**BCWS**

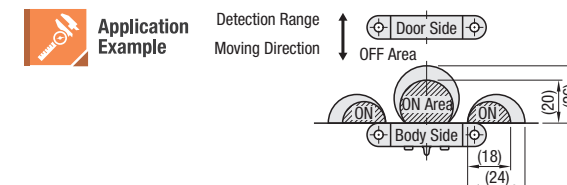
Part Number	Mass (g)
BCWS 1	19

**Performance**

Parameter	Value
Detection Distance	As Shown Below
Max. Operating Voltage	DC100V
Max. Operating Current	0.5A
Max. Operating Power	10W
Contact Resistance	150 mΩ
Withstand Voltage	DC200V 1min

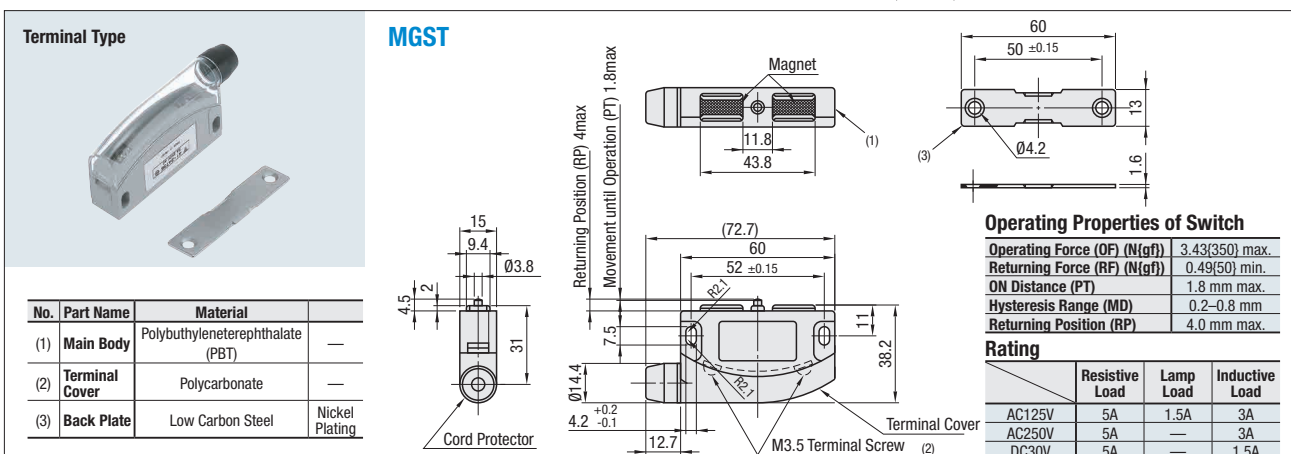
Ⓢ AC Unusable

Part Number	Mass (g)
BCWS 1	19



Part Number Example: BCWS1

**Terminal Type**



**MGST**

No.	Part Name	Material
(1)	Main Body	Polybutyleneterephthalate (PBT)
(2)	Terminal Cover	Polycarbonate
(3)	Back Plate	Low Carbon Steel, Nickel Plating

**Operating Properties of Switch**

Parameter	Value
Operating Force (OF) (N/gf)	3.43(350) max.
Returning Force (RF) (N/gf)	0.49(50) min.
ON Distance (PT)	1.8 mm max.
Hysteresis Range (MD)	0.2-0.8 mm
Returning Position (RP)	4.0 mm max.

**Rating**

	Resistive Load	Lamp Load	Inductive Load
AC125V	5A	1.5A	3A
AC250V	5A	—	3A
DC30V	5A	—	1.5A

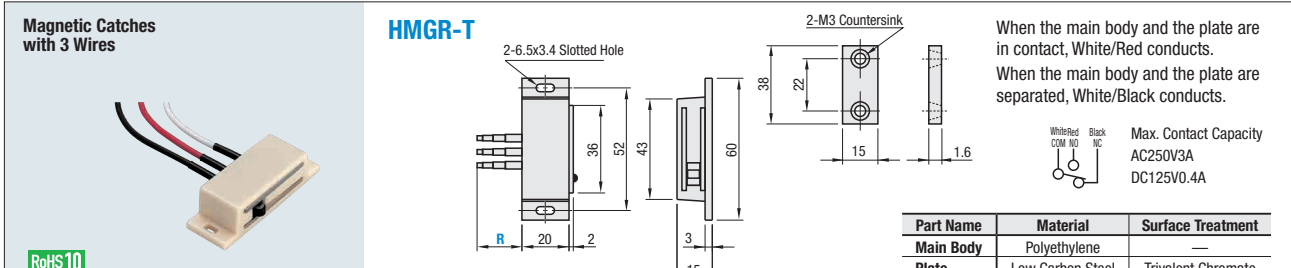
Part Number	Operation	Retention Force (kgf)	Case Color	Mass (g)
MGST 1	OFF when attracted	3	Gray	52
MGST 2	ON when attracted			

Part Number Example: MGST1

**Performance Overview**

Electrical Perfor.	Insulation Resistance (Initial)	100MΩ or More (With 500 VDC Insulation Resistance Meter)	Mechanical Life	100,000 Times or More (Open-Close Frequency: 60 times/min.)	Operating Conditions	Operating Temp.	-20~+80°C (No freezing)
	Withstand Voltage	Between Contact Points: 1,000 VAC/min. (Initial) Between Each Terminal and Non-charging Metal Part: 2,100 VAC/min. Between each Terminal and Ground: 2,100 VAC/min.		Electrical Life		50,000 Times or More (Resistance Load 250 VAC, 5A) 30,000 Times or More (Lamp Load 125 VAC, 15A)	Operation Environment Humidity
Degree of Protection	IP40	Allowable Operating Frequency	Mechanical: 60 times/min., Electrical: 20 times/min.				

**Magnetic Catches with 3 Wires**



**HMGR-T**

When the main body and the plate are in contact, White/Red conducts.  
When the main body and the plate are separated, White/Black conducts.

Part Name	Material	Surface Treatment
Main Body	Polyethylene	—
Plate	Low Carbon Steel	Trivalent Chromate

Part Number	R	Retention Force (kgf)	Mass (g)
HMGR-T	150	2	43
	2000		

Part Number Example: HMGR-T - 150

Ⓢ The default R dimension will be 150 unless specified.