

Body specification

Oyster white
(CGCC colour steel plate)
JIPMA No. H27-85B correspondent
(Japan Paint Manufacturers 2015 H-edition)

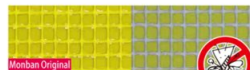
Aluminium
(Anodizing)
※ Aluminium frame only
※ Except GF

Stainless
(SUS304 Hairline)
※ G series only top frame
(Except GF)

Sheet line up



SS clear
Transmittance 68%
Visibility ★★★★★
Insect-proof effective ★★★★★
Flameproof certified : F-26183
Thickness : 1.0mm
compare with conventional clear transparency is developed secure safety when pass through and keep room brightness by contribute energy saving.



Magic optron
Prevent attractive to flying insects 80.7%
Insect-proof effective ★★★★★
Visibility ★★★★★
Flameproof certified : F-26240
Thickness : 0.78mm
Green colour for prevent invaded by outside insects. Yellow inside make inside factory brighter and guide invaded insect to outside.



Electrification-proof nonflammable sheet
Noncombustible flameproof certified
Antistatic ★★★★★
UVprotection ★★★★★
Noncombustible certified : NM-3553
Flameproof certified : F-24171
Thickness : 0.53mm
Certification of incombustible and flameproof, usable at explosion proof areas.



Rat-protection bottom sheet blended
with high concentration capsacin
Flameproof certified : F-25041
Thickness : 0.53mm
New develop from the voice of customer such as food factory, rats biting the sheet and enter inside problem.

Varieties of sheet colour available



※ This photo is only image, colour may different from actual product. Product appearance and specification can change without notice.

※ Flame proof product number "N-0793"

※ Antibacterial orange sheet will be out of Eco Mark certification.

※ SS clear, Opacity blue, orange, silver may not be produced. Depends on door size. Please ask for more information show order specification

※ Magic Optron is a joint development products of Ikari Co., Ltd and Taisei E & L Co., Ltd

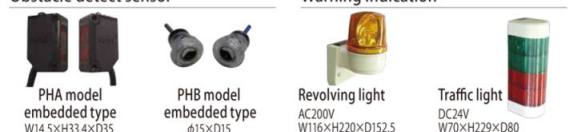
Option equipment can be chosen according to the application and size

Please specify the option equipment which suit to your usage of the sheetshutter when order.

Operating sensor



Obstacle detect sensor



Warning indication

PHA model embedded type W14.5×H33.4×D35

PHB model embedded type φ15×D15

Revolving light AC200V W116×H220×D152.5

Traffic light DC24V W70×H229×D80

Switch up down



Embedded type / Outcrop type

1 point, 3 points, non-contact switch

WS2×H112×D183 Outcrop 1 point, 3 points switch

WS2×H112×D183 Outcrop non-contact switch (DCSV)

WS2×H112×D23.5 Outcrop non-contact switch (DC24V)

Rain proof model

1 point, 3 points switch

W60×H120×D67(1 point)

W49×H152.5×D34(3 points)

Pull switch

W68×H140×D62

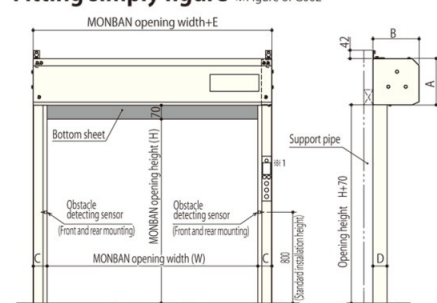
Remote control

WS2×H85×D8.7

(Transmitter)

Fitting simply figure

※ Figure of G062



	G062	G022	G114	G024	G119	G219	GF17	GF22	G125	G145
A	190	240	230	280	300	300	280	320	191.8	231.8
B	180	180	230	230	300	300	280	330	200	240
C	50	50	70	50	70	70	73	73	90	90
D	53	53	70	53	70	70	90	90	200	240
E	100	100	140	100	140	140	154.6	154.6	180	180

【Caution】 Please always attach one set of front and rear obstacle detection sensor.

Additionally, please check the optimal position, objects and number of passing in advance.

※ 1 In case of using separated controller, cannot use panel built-in frame.

Happygate MONBAN with varies specifications for customers in every environment.

Cold storage and refrigerator model	-25℃ ~ 5℃ warehouse entrance or use as partition	Explosion proof model	The air drive + air control system installed in high explosion proof areas	High temperature heat-resistant model	In the entrance of a high-temperature environment such as 100℃ of drying booth
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Create space value

Save power, Save energy, Quality control

Incredible effects to the environment and air-conditioning.



Sheet out by collision is automatically return to the rails easily



Collision by lift and truck during the operation, the sheet will stop a while and slowly going up (0.5m/s) automatically return into the rails. The structure designed to convenience in case of power failure, woman can also easily get out by simply lifting the sheet.



※ Attaching the back up power supply could secure the passage (optional)

Extra high speed

Self-repairing system

Silent

Hi durability

Hi grade airtight

happygatemonban
Product introduction
video

Patent pending



G Series indoor • pipeless type
G062 / 022 / 114 / 024 / 119 / 219 / GF17 / 22

Width **600 ~ 4500**
Height **600 ~ 4500** Unit : mm

Insect proof, dust proof
Energy saving
and air-conditioning
Improve working
environment



Separate controller

Please use separate controller if install to the location where the influence of water is assumed.

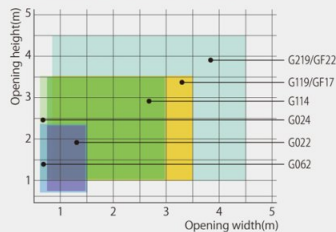


GA controller
W170×H630×D80
(For G062/114)



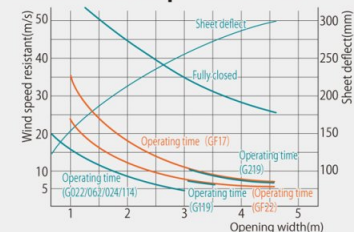
KVA controller
W242×H400×D105
(For G119/219/GF17/22)

Installable dimension



※G022/024 controller built in top frame.
※G114/119/219 controller built in side frame
※GF17 / 22 medium-pressure difference environment model
※Please use separate controller if install to the location where the influence of water, such as rain or condensation is assumed.

Wind resistant performance



For install in order to adjust the room pressure for hygienic control, please refer to below model guideline.

Room pressure difference	Room pressure difference
Fully closed Within 10 Pa	Fully closed Within 20 Pa
G062/022/114/024/119/GF22	G219/GF17

※Number and pressure resistance performance is varies depend on the room pressure difference.

Evolution of high-speed opening and closing, self repairing system, silent, high durability and high grade airtight

Pipe-less shutter reborn, in more fast, more quiet, and more safety.

Extra high speed



Extra opening speed 3.2m/s
Safety closing speed 0.7m/s

the operation of start up sensor or switch will be ran by machine usually driving shorten opening time , efficiency operation is developed concurrently with the improvement of preventing of insect, dust, outside air and energy saving
※Opening and closing speed you can change according to the application.Adjustable speed, please refer to the following specification.

Reverse opening for safety

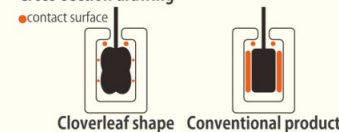
middle speed **1.5m/sec** phototube sensor detecting, scan. going up except the lowest position
low speed **0.5m/sec** detect touching or bear while machine is running

Silent



Operating noise reduced 10% compared with conventional
Quietness by MONBAN tube
Sheet both sides using MONBAN tube instead of conventional fastener for more silent operation and prevent damage.

Cross-section drawing



High grade airtight



Structure of air tight achieve high grade airtightness

Air tight seal attached to the top frame with high insect and dust proof effect, and ideal for a variety of clean environment.

Positive pressure	5.76m ³ /h·m ²
Negative pressure	8.35m ³ /h·m ²

※circulating air at 10Pa
※Carried out testing at JIS A 1516 indoor airtight examination center
※Our products can be any number of airtight seals.
※Wind pressure performance can be different depending on the size
※Air tight seal attached on the top frame only.

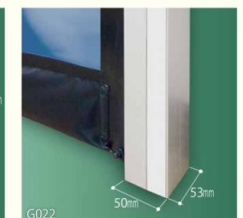
Built-in controller, easy to move



Controller built in the top frame or side frame, saving wiring and space, Easy to move or relocate

※G062/GF17/22 using separate controller

Compact design



40% compacter than the conventional model Suitable for the entrance of the factory and office

Specification

	Type					Strong wind resistance type			
	Model	G062	G022	G114	G024	G119	G219	GF17	GF22
Manufacturable Dimension	Opening width (mm)	600 ~ 1500	700 ~ 1500	600 ~ 3000	700 ~ 3000	800 ~ 3500	800 ~ 4500	800 ~ 3500	800 ~ 4500
	Opening height (mm)	600 ~ 2300		1000 ~ 3500			1000 ~ 4500	1000 ~ 3500	1000 ~ 4500
Opening & closing m/c	Input power source	Single-phase AC200V ~ 230V± 10%							
	Output	0.2kW		0.4kW		0.95kW			
	Opening Speed (Setting when shipment) (m/s)	3.0 ~ 1.5 [2.0]	3.0 ~ 1.5 [2.0]	3.0 ~ 1.5 [2.0]	3.0 ~ 1.5 [2.0]	3.2 ~ 1.2 [2.0]	1.5 ~ 0.7 [1.5]	1.5 ~ 0.7 [1.5]	1.5 ~ 0.7 [1.5]
	Closing Speed (Setting when shipment) (m/s)	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]	1.5 ~ 0.5 [0.7]
	Reduction Speed Ratio	1/10		1/14		1/10		1/23	
	Reduction method	Planetary helical gear reduction method							
Control roller	Built-in top frame	—	●GA	—	●GA	—	—	—	—
	Built-in side frame	—	—	●GA(In the right side frame)	—	●GA(In the right side frame)	●GA(In the right side frame)	—	—
	Separate controller	●GA	—	●GA	—	●KVA	●KVA	●KVA	●KVA
Side frame	Aluminum frame	●	●	●	●	●	●	—	—
	Colour ・ stainless steel	—	—	—	—	—	—	●	●

※Using frequency: 100 times/hr ※Using environment: ambient temperature more than -10℃ less than 40℃ (except frozen state), ambient humidity: RH85% or less
※G Series is for indoor installation type. G219 is using bottom weights up type. ※Operation switch is installed at the right frame. However, G114 / 119/219 in the case of H2200 or less, it will be installed in the left frame.
※Controller : G022 / 024 is built-in top frame only, G114 placed side frame or use GA separate controller, G119 / 219 built-in side frame or use KVA separate controller.