

Body specification

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

Aluminium
(Anodizing)
※ Aluminium frame only
※ Except RF50

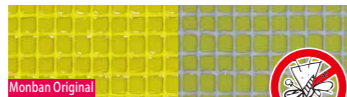
Stainless
(SUS304 Hairline)
※ Only frame for RF50 Model

Sheet line up



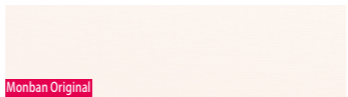
SS clear
Transmittance 68%
Visibility ★★★★★
Insect-proof effective ★★★★★
Flameproof certified : F-26183
Thickness : 1.0mm

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-27303
Thickness : 0.78mm

Green outside 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 capsaicin
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

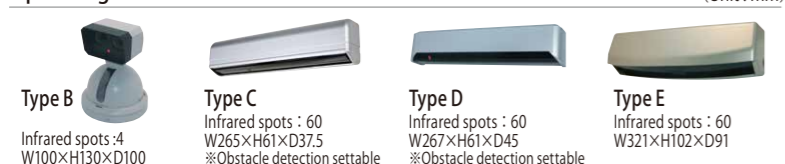


Clear **Orange/Semitransparent orange** **Opacity blue** **Opacity orange** **Opacity black** **Opacity Silver** **Mesh**
※ This photo is only image, colour may different from actual product. Product appearance and specification can change without notice.
※ Flame proof product number "N-0793"
※ SS clear, 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 fine chemical Co.,Ltd

Option equipment can be chosen according to the application and size

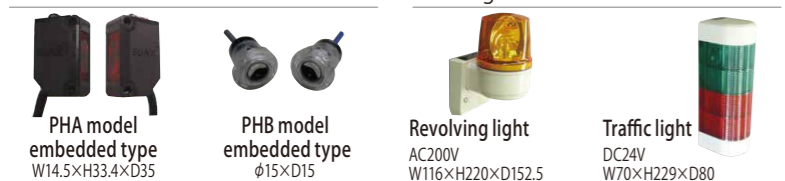
Please specify the option equipment which suit to your usage of the sheetshutter when order.

Operating sensor



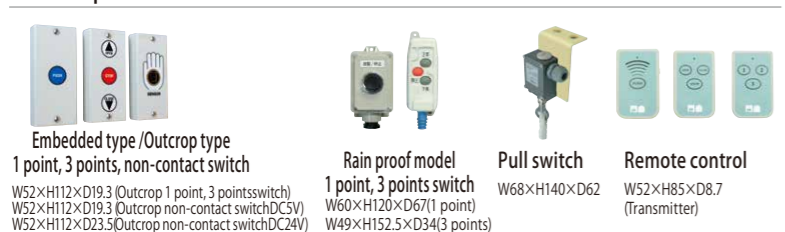
(Unit : mm)

Obstacle detect sensor

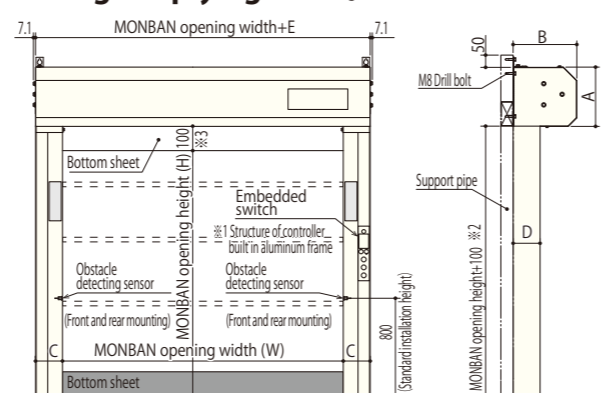


Warning indication

Switch up down



Fitting simply figure



	R054	R109	R209	R309	R409	RF50	R30W	R40W	R30T	R40T
A	240	280	320	380	405	500	380	405	380	405
B	260	300	330	380	420	485	380	420	380	420
C	110	110	110	125	125	138	125	125	125	125
D	110	110	110	125	125	135	125	125	125	125
E	220	220	220	250	250	286	250	250	250	250

(Unit : mm)
[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.
※2 RF50 model is opening height +200, and also depends also the foundation construction method.
Please contact us for more information.
※3 RF50 model the bottom sheet height is 200.

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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<https://www.komatsuelec.co.jp/monban/>

Received award
1991 : Medium and small business research prize
1991 : The highest prize of new business Grand-Prix
1993 : Regional Companies contributor Award
1995 : Science and technology agency
"The selection as remarkable invention"
2007 : Minister of land, Infrastructure and Transport prize
2012 : The Japanese Grand-prix prize for an excellent work
2012 : Japanese Grand-prix Prize for an excellent work. Creation of new industries
2016 : Global Innovation Company Commendation (KOMATSU KOREA)

※1. Please install at place that the product will not directly to the rain and water. ※2. Please refrain from using at place such as coastal areas, various types of metal powder, chemicals for use in corrosive atmosphere or places of environmental conditions such as condensation and freezing and poisonous gas. ※3. The production of the body (W / H) will be 100mm unit. ※4. Please contact us for size out of standard production range. Please note that It may not be able to manufacture. ※5. Appearance and specification of product may be change for improvement the quality without prior notice. ※6. Please use read the instruction manual correctly and carefully for using. ※7. Please use read the instruction manual correctly and carefully for using.

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Create space value

Save power, Save energy, Quality control

happy gate 門番 monban

Incredible effects to the quality and air-conditioning.

Dust proof, Insect proof

Wind proof, cold proof

Hi speed opening and closing

Hi grade air tight

Wind resistant, pressure resistant



Maximum 10m width Install large opening width

Shorten the opening time, improves working efficiency, and contribute to energy saving and quality surplus by the change of indoor environment due to the outside air, insects and dust.

KOMATSU ELECTRIC INDUSTRY CO.,LTD.

happygatemonban Product introduction video



Patent pending

R Series outdoor · pipe type
R054 / 109 / 209 / 309 / 409 / RF50 / R30W / 40W / R30T / 40T

Width **600~10000**
 Height **1000~6000** Unit : mm

Wind proof, Cold proof
 Insect proof, dust proof
 Working efficiency
※R054 / 109 indoor specification



Structure of pipe-type model with strong wind and pressure resistant is suitable for insect proof, dust proof, wind proof and cold proof.

Pipe-type with high grade airtight and high speed up fit to all small to large opening size



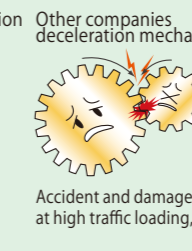
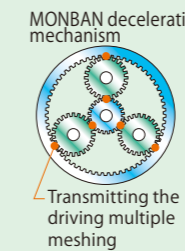
Pipe type with wind and air pressure strong resistant
Wind pressure resistant specification product

Tightly sealed to prevent a gap that can be from the bulge of the sheet by the wind and pressure difference. High grade airtight structure in the top frame and side frame.



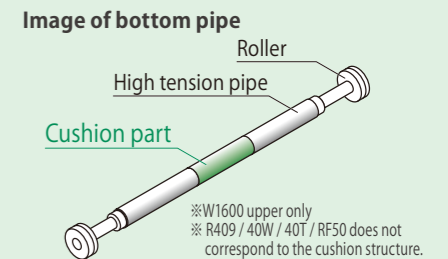
New engine model
Opening high speed 2.0m/s

High-speed opening and closing 2.0m / sec by the new engine. Shorten the opening time at the entrance and contributing to improve working environment enhances the air conditioning effectiveness, insect proof and dustproof effect.

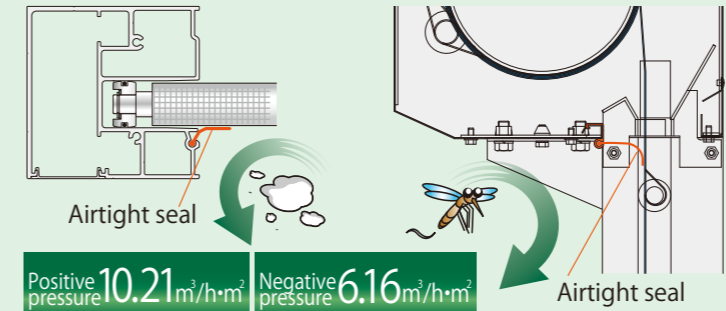


Bottom pipe cushion with strong structure

Less maintenance costs, soften the impact of the collision by the bottom pipe with cushion structure.



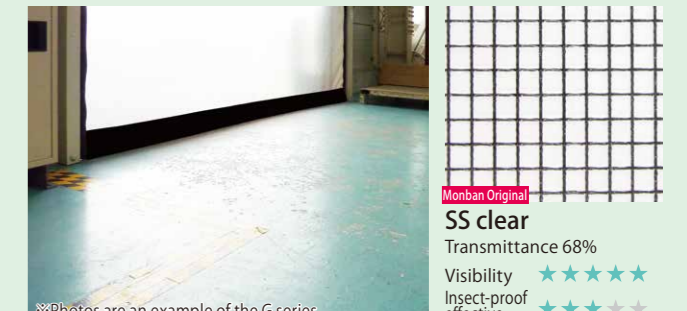
High effectiveness of insectproof and dustproof



Further improved air-tightness in combination with an air tight seal. Possible to prevent the fully closed of insects and dust intrusion, and achieve a higher quality control and clean working environment.

※circulating air at 10Pa using JISS fore testing inside co.
 ※our product attach airtight seal;shown by numerically
 ※Wind pressure performance can be different depending on the size

Effective of high visibility with high power saving



compare with conventional clear transparency is developed secure safety when pass through and keep room brightness by contribute energy saving.

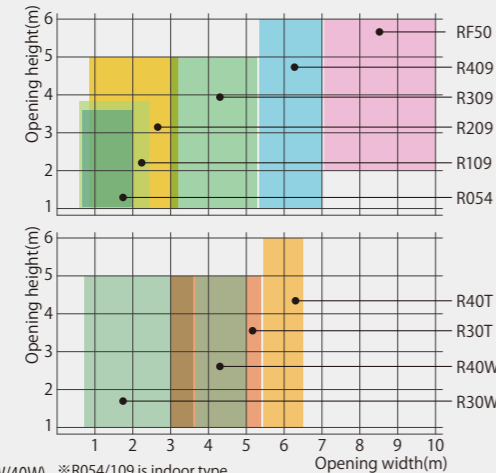
Separate controller

Worry of condensation caused by rain and fog also resolved. Able to use together with separate countdown monitor for more safety.

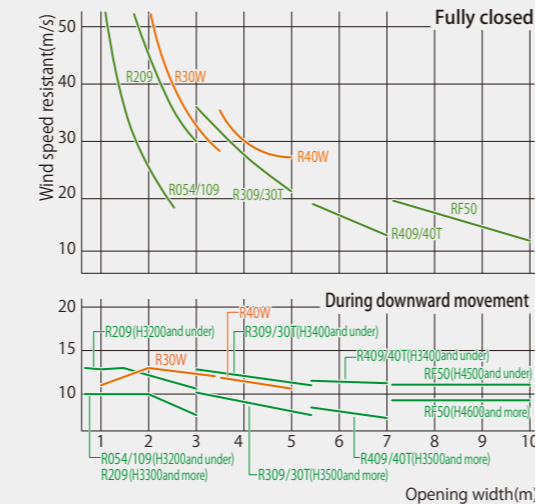


GA controller W170×H630×D80 (For R054)
 KVA controller W242×H400×D105 (For R109/209)
 W242×H450×D105 (For R309/409/R30W/40W)
 W242×H850×D105 (For RF50)

Installable dimension



Wind resistant performance



Specification

Type	Indoor type		Indoor/outdoor combined type				High pressure high wind resistant type		Three-phase 200V power supply type		
	Model	R054	R109	R209	R309	R409	RF50	R30W	R40W	R30T	R40T
Manufacturable Dimension	Opening width (mm)	600 ~ 2000	600 ~ 2500	800 ~ 3200	3000 ~ 5300	5400 ~ 7000	7100 ~ 10000	800 ~ 3500	3600 ~ 5000	3000 ~ 5300	5400 ~ 6500
	Opening height (mm)	1000 ~ 3600	1000 ~ 3800	1000 ~ 5000		1000 ~ 6000	2000 ~ 6000	1000 ~ 5000	1000 ~ 5000	1000 ~ 5000	1000 ~ 6000
Opening & closing m/c	Input power source	Single-phase AC200V ~ 230V±10%						3 phase AC200V±10%			
	Output	0.4kW		0.95kW							
	Opening Speed (Setting when shipment) (m/s)	2.0 ~ 1.2 [1.2]	2.0 ~ 1.6 [1.6]	1.5 ~ 0.7 [1.0]	1.0 ~ 0.7 [1.0]	0.7 ~ 0.55 [0.55]	0.55 [0.55]	0.75 ~ 0.55 [0.7]	0.45 ~ 0.3 [0.4]	1.0 ~ 0.7 [1.0]	0.51 ~ 0.4 [0.48]
	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]	1.0 ~ 0.5 [0.7]	0.7 ~ 0.55 [0.55]	0.55 [0.55]	0.6 ~ 0.4 [0.55]	0.45 ~ 0.3 [0.4]	1.0 ~ 0.5 [0.7]	0.51 ~ 0.4 [0.48]
	Reduction Speed Ratio	1/14	1/10	1/23	1/50	1/74	1/74 × 2	1/74	1/74	1/25	1/43
Sheet core material	Reduction method	Planetary helical gear reduction method									
	Middle pipe	φ15.9×t1.2		φ27.2×t1.2		φ38.1×t1.2		φ48.6×t1.8		φ38.1×t1.2	
Control roller	Bottom pipe	φ27.2×t1.2+VE28(VPVU pipe)		φ38.1×t1.2+VP40(VPVU pipe)		φ38.1×t1.2(With sponge)		φ48.6×t1.8(With sponge)		φ38.1×t1.2(With sponge)	
	Built-in side frame	●GA	●GA	●GA	●GA	—	—	—	—	—	—
Side frame	Separate controller	●GA	●KVA	●KVA	●KVA	●KVA/B	●For RF50	●KVA	●KVA	●SVA	●SVA
	Aluminum frame	●	●	●	●	●	—	●	●	—	—

※ Using frequency: 100 times / hr (R054 / 109/209), 60 times / hr (R309 / 409 / RF50 / R30W / 40W / R30T / 40T) ※ Using environment: ambient temperature more than -10 °C ~ less than 40 °C (except frozen state), ambient humidity: RH85% or less. ※ When order R054/109/209/309 please select built-in controller and placing separately. ※ Please use controller placing separately type when install in the place which may be impact from water such as rain or condensation. ※ Controller which placing R054 separately has difference spec from R109/209/309. ※ Use gate width less than W5400 ~ 6100mm, Gate high more than H5000mm for R409 type and for gate width W6200 ~ 7000mm, Gate high H4200mm please use KVB(Large-capacity type). ※ RF50/R30T/40T has only color steel plate/stainless steel plate flame.