#### **Body specification**

Oyster white (CGCC colour steel plate) JPMA No. H27-85B correspondent (Japan Paint Manufacturers 2015 H-edition) Stainless (SUS304 Hairline)



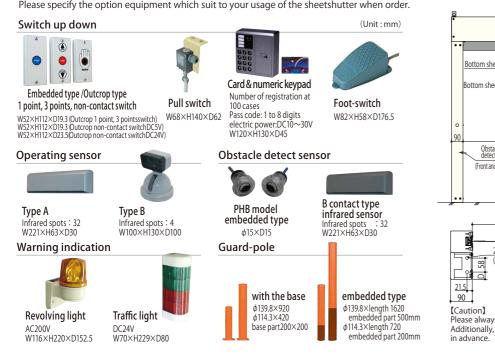
Orange/ Semitransparent orange Clear Opacity blue Opacity orange

\*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"

\*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

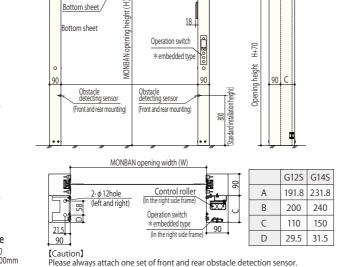
Please specify the option equipment which suit to your usage of the sheetshutter when order.



## Fitting simply figure **\*\***Figure of G125

**Opacity black** 

**Opacity Silver** 



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

#### Happygate MONBAN with varies specifications for customers in every environment.

Cold storage and -25 °C ~ 5 °C warehouse refrigerator model entrance or use as partition proof model installed in high explosion proof areas heat-resistant model environment such as 100 °C of drying boo

award

1.松電税産業株式 会社 KOMATSU ELECTRIC INDUSTRY CO..LTD.

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#### https://www.komatsuelec.co.jp/monban/

%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.



Received | 1991 : Medium and small business research prize

1995: Science and technology agency

1991: The highest prize of new business Grand-Prix

"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

1993: Regional Companies contributor Award



# Incredible effects to the environment and air-conditioning.

- 25.0





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.



Independent structure

Silent

Extra high speed Higrade

airtight

happygatemonban **Product introduction** video



Patent pending







shortly

appointment



#### size • standardized goods and option world class super fast transportation shipping within Udays (Japan only)

size/option goods(switch sensor) 3 types of standard products be sent within 3 days

Type S(G12S)	Type SM(G14S)	Type SL(G14S)
W900	W1200	W1800
×	×	×
H2000	H2000	H2000

color: ovster white

sheet's color: SS clear Optional parts: 2sets of PHB photocell sensor, 2 units of touchless switch (each on front and back) \*above-mentioned sheet (no window) \*please contact later schedule of set up date

### find out damaged sensor untouched switch

good looking built in design; able to protect any dust goes inside

#### **Multi monitor** panel and multi are installed inside of countdown monitor.



Find out damage sensor Untouched switch

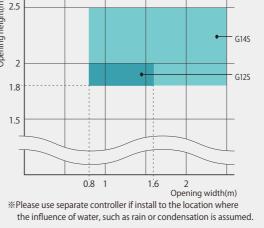
Safety

Multi monitor



2.5 1.8







Extra opening speed 3.0m/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





unnecessary foundation

Unit structure, easy wiring

frame reduce the installation time significantly.

Independent structure helps to install to the place no

ground work, and 2 unit structures of the box and the

Simple installation, in case no ground work, only fix

shortly construction

the shutter by the anchor bolt.

speed low speed

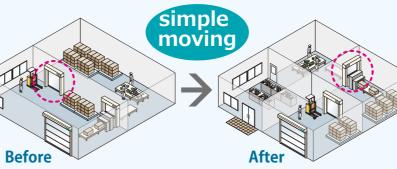
following specification.

### **Reinstall layout is so simple**

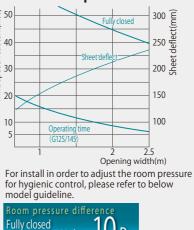
unnecessar

foundation

anything you would like to move such as layout it's so easy to do! No need groundwork, just move only electrical power input



## Wind resistant performance



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

Within

## **Unnecessary foundation • Shortly construction • Reinstall layout is so simple**

The independent structure for which unnecessary construction to no ground work place. Less expense and simple installation.

to the application. Adjustable speed, please refer to the

## **Reverse opening for safety**

phototube sensor detecting, m/sec scan. going up except the lowest position

detect touching or bear while m/sec machine is running



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**

contact surface





**Cloverleaf shape** Conventional product

#### Structure of air tight achieve high grade airtightness (Optional order)









\*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.



#### **Specification**

opeemeanen				
Model		G12S	G14S	
Manufacturable Dimension	Opening width (mm)	800~1600	800~2500	
	Opening height (mm)	1800~2000	1800~2500	
	Input power source	Single-phase AC200V $\sim$ 230V $\pm$ 10%		
Opening & closing m/c	Output	0.2kW	0.4kW	
	Opening Speed (Setting when shipment) (m/s)	3.0~1.5 [2.0]	3.0~1.5[2.0]	
	Closing Speed (Setting when shipment) (m/s)	1.5~0.5[0.7]	1.5 ∼ 0.5【0.7】	
	Reduction Speed Ratio	1/10	1/14	
	Reduction method	Planetary helical gear reduction method		
Control roller	Built-in top frame	-		
	Built-in side frame	●GA(In the right side frame)		
	Separate controller	-	-	
Side frame	Aluminum frame	-	-	
	Colour • stainless steel			

KUSing frequency: 100 times/hr %Using environment: ambient temperature more than −10 °C less than 40 °C (except frozen state), ambient humidity: RH85% or less.% G Series is for indoor installation type.%Operation switch is installed at the right frame.%Controller is built-in side frame.