

SPECIFICATIONS

1. General Specifications

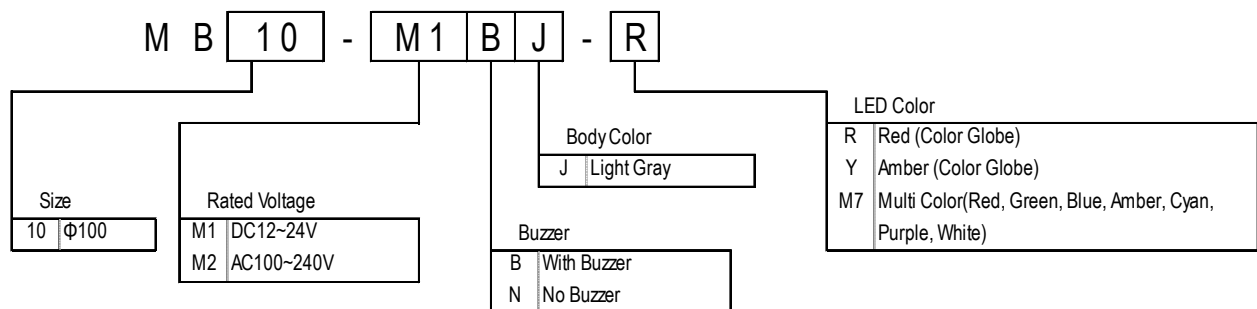
Model			MB10-M1□J-(R/Y)		MB10-M2□J-(R/Y)	
Rated Voltage			12-24V DC		100-240V AC (50/60Hz)	
Operating Voltage Range			10-30V DC		90-250V AC	
			12V DC	24V DC	100V AC	240V AC
Rated Current Consumption	Max.	No Buzzer	0.13A	0.07A	0.04A	0.03A
		With Buzzer	0.20A	0.10A	0.05A	0.03A
Rated Power Consumption	Max.	No Buzzer	1.5W		1.7W	
		With Buzzer	2.4W		2.5W	
Signal Wire Current	Max.	LED	0.13A	0.07A	-	
		Buzzer	0.10A	0.05A	2mA	
Inrush Current			4.5A, 25ms		25A, 5ms	
Operating Ambient Temperature			-30℃ ~ +60℃		-15℃ ~ +60℃	
Operating Ambient Humidity			Less than 90% (No condensation)			
Mounting Location			Indoor / Outdoor			
Mounting Direction			Indoor : Upright, Inverted & Sideways, Outdoor : Upright			
Protection Rating			IP65 (IEC 60529)			
Environmental Condition			Upright			
Sound Pressure Level(Typ.)			110dB			
			Sound Reduction Approx. -20dB. Depending on DIP Switch setting.			
Environmental Condition			Measured at 0.3m from the front of the Buzzer Opening			
Rotation Flashing Rate(Typ.)			140rpm			
Flashing Rate(Typ.)			Blinking(180 flashes per minute), Triple-flash(120 flashes per minute)			
Conformity Standards	EMC Directive		EN61000-6-4, EN61000-6-2		EN61000-6-4, EN61000-6-2 EN61000-3-2, EN61000-3-3	
	KC		KN61000-6-4, KN61000-6-2			
	RoHS Directive		IEC 62321 / China-RoHS(GB/T26572-2011 SJ/T11364-2024)			
	Low Voltage Directive		-		IEC/EN60947-5-1,EN62471 (For use in indoor industrial control equipment)	
Remarks			Conforms to the CE Requirements Conforms to the UKCA Requirements			

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Model			MB10-M1□J-M7		MB10-M2□J-M7	
Rated Voltage			12-24V DC		100-240V AC (50/60Hz)	
Operating Voltage Range			10-30V DC		90-250V AC	
Rated Current Consumption	Max.	No Buzzer	12V DC 0.40A	24V DC 0.20A	100V AC 0.09A	240V AC 0.05A
		With Buzzer	0.47A	0.24A	0.11A	0.06A
	Rated Power Consumption	Max.	No Buzzer	4.8W		5.0W
With Buzzer			5.7W		5.8W	
Signal Wire Current	Max.	LED	0.25A	0.13A	2mA	
		Buzzer	0.10A	0.05A	2mA	
Inrush Current			4.5A, 25ms		25A, 5ms	
Operating Ambient Temperature			-30℃ ~ +60℃		-15℃ ~ +60℃	
Operating Ambient Humidity			Less than 90% (No condensation)			
Mounting Location			Indoor / Outdoor			
Mounting Direction			Indoor : Upright, Inverted & Sideways, Outdoor : Upright			
Protection Rating			IP65 (IEC 60529)			
Environmental Condition			Upright			
Sound Pressure Level(Typ.)			110dB			
			Sound Reduction Approx. -20dB. Depending on DIP Switch setting.			
Environmental Condition			Measured at 0.3m from the front of the Buzzer Opening			
Rotation Flashing Rate(Typ.)			140rpm			
Flashing Rate(Typ.)			Blinking(180 flashes per minute), Triple-flash(120 flashes per minute)			
Conformity Standards	EMC Directive		EN61000-6-4, EN61000-6-2		EN61000-6-4, EN61000-6-2 EN61000-3-2, EN61000-3-3	
	KC		KN61000-6-4, KN61000-6-2			
	RoHS Directive		IEC 62321 / China-RoHS(GB/T26572-2011 SJ/T11364-2024)			
	Low Voltage Directive		-		IEC/EN60947-5-1,EN62471 (For use in indoor industrial control equipment)	
Remarks			Conforms to the CE Requirements Conforms to the UKCA Requirements			

2. Model

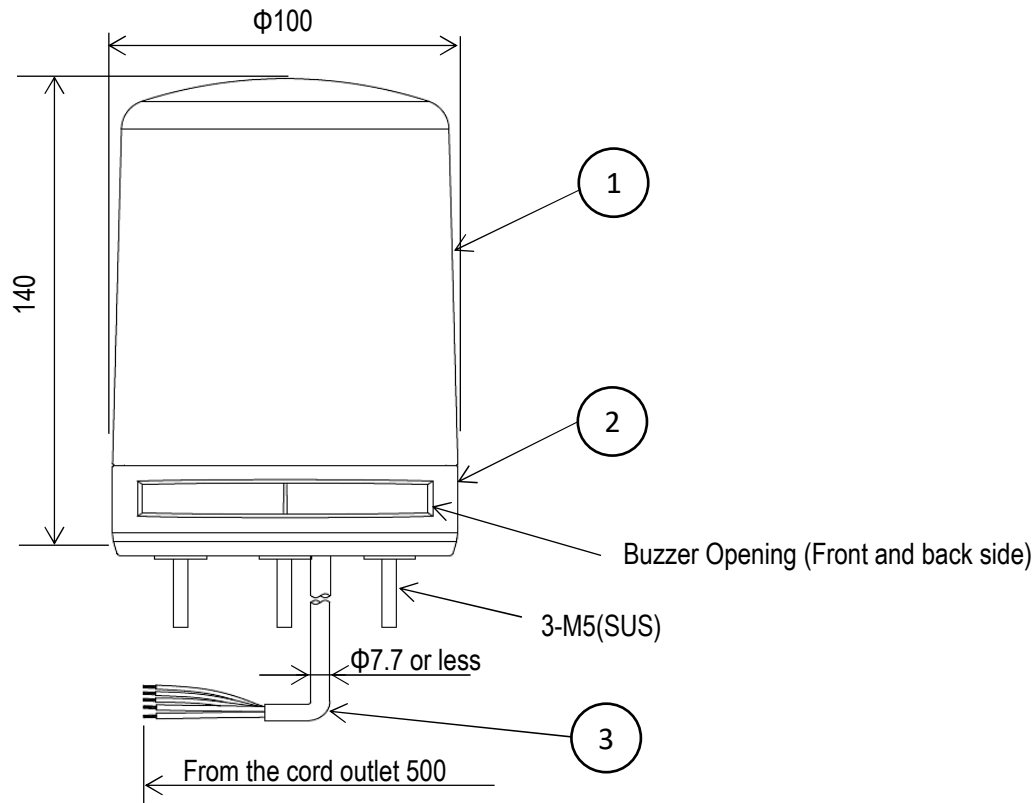
2.1 Model Number Configuration



3. Outer dimensions

3.1 MB10-□□J-□

(Unit:mm)



Number	Name	Material, Specification	Qty.
1	Globe	PC	1
2	Body	ABS+PC	1
3	Cable Cord	M1□J-□ : AWG20 M2□J-R, M2□J-Y : AWG18 M2□J-M7 : AWG22	1

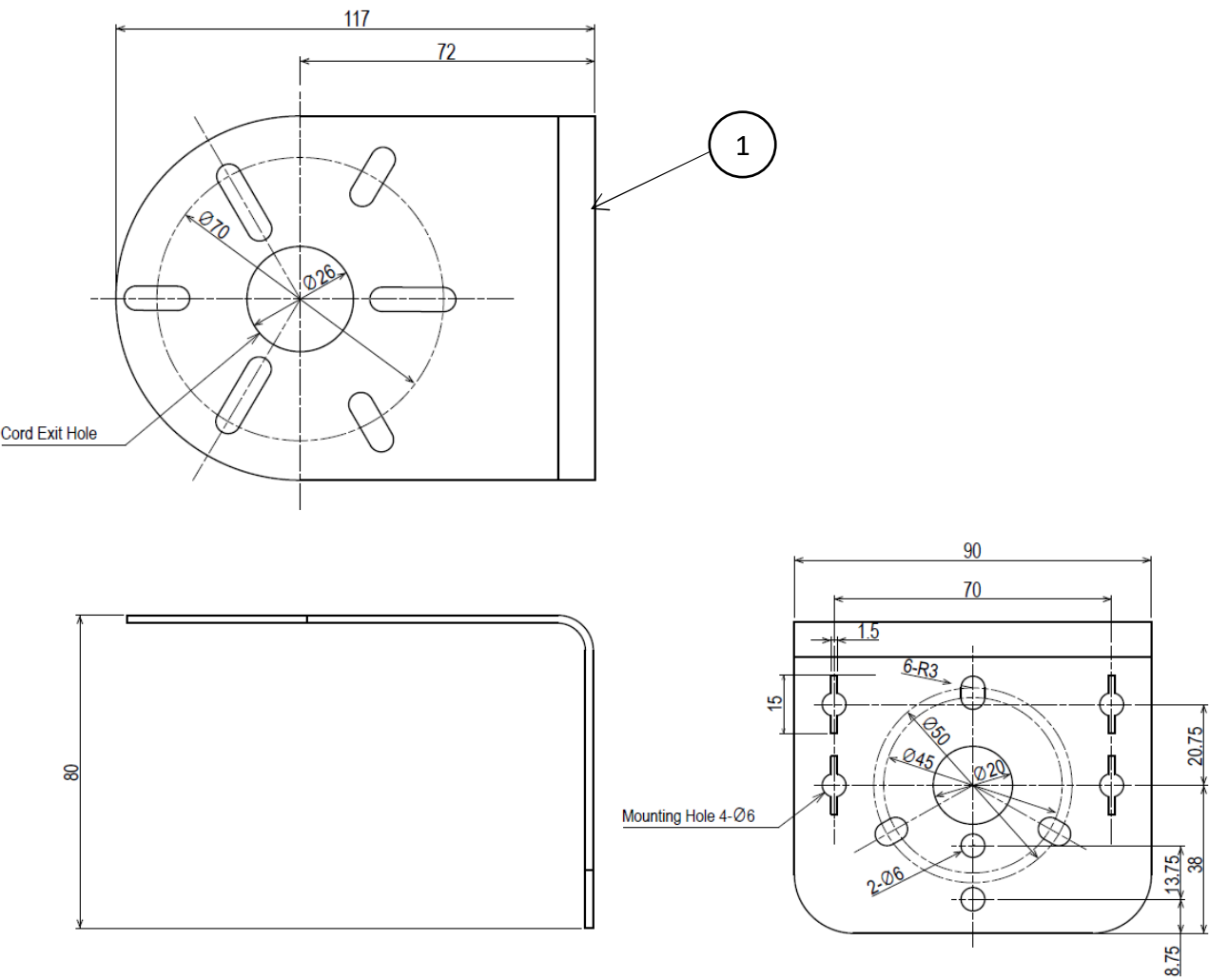
Accessory		
Plain Washer(M5) SUS  3 pcs.	Spring Washer(M5) SUS  3 pcs.	Nut(M5) SUS  3 pcs.

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3.2 Option

3.2.1 Model : MB-001, Wall Mount Bracket

(Unit:mm)

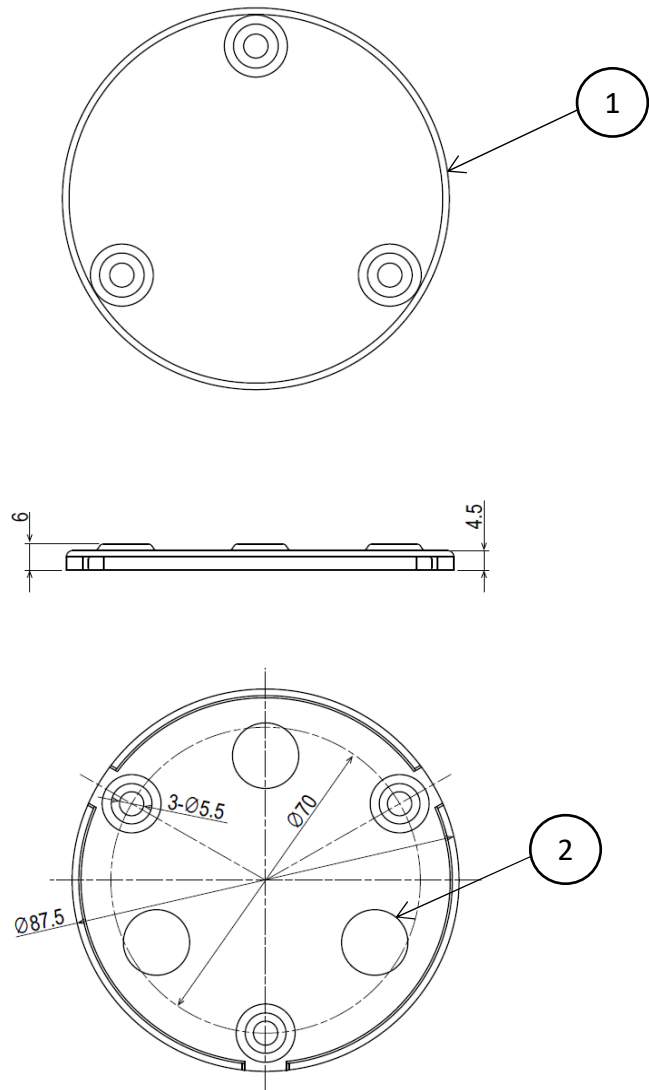


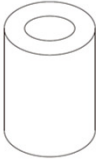
Number	Name	Material, Specification	Qty.
1	Wall Mount Bracket	SUS, t=2.0, Light Gray	1

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3.2.2 Model : MB-002, Magnetic Mount Bracket

(Unit:mm)



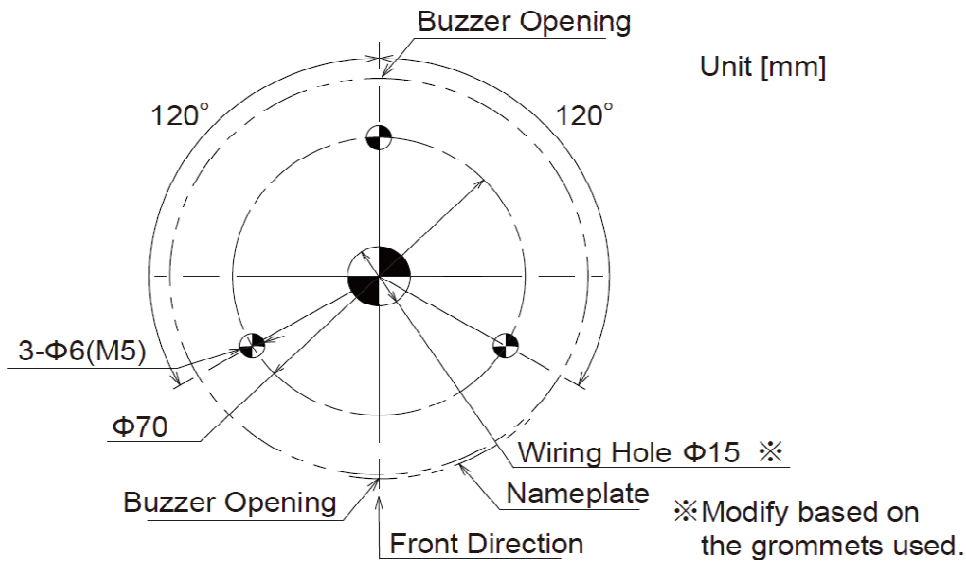
Accessory	
Spacer (Length:15mm) ABS	Nut(M5) SUS
	
3 pcs.	3 pcs.

Number	Name	Material, Specification	Qty.
1	Bracket	SPCC, t=1.5	1
2	Magnet	-	3

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4.Mounting Dimensional Drawing

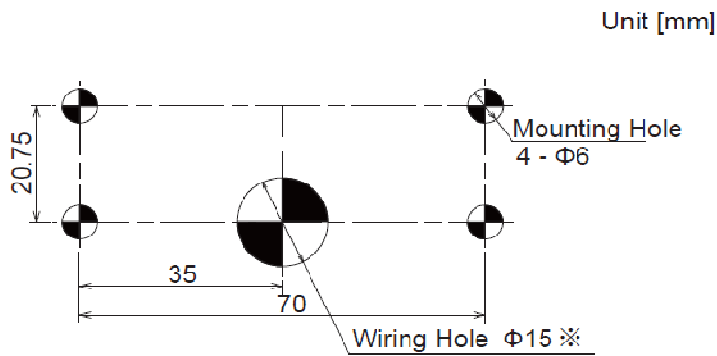
4.1 MB10-□□J-□



Recommended Torque
1.4 N·m

4.2 Option

4.2.1 Model : MB-001, Wall mount bracket



Screw / Nut
M5×4 pcs.

Recommended Torque
1.4 N·m

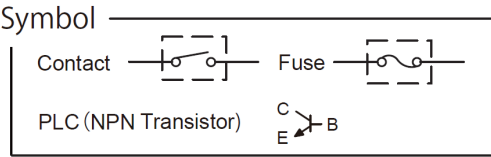
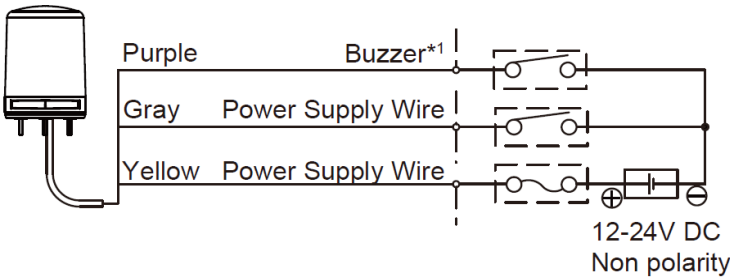
5. Wiring Diagram

5.1 Wiring Example

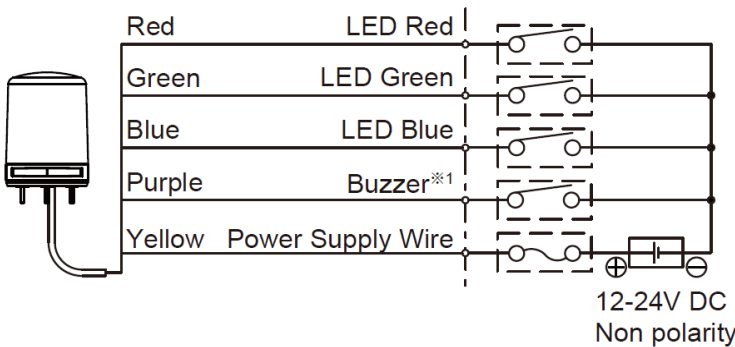
*1 Only included in models with buzzer.

Recommended External Fuse
250V 1A Time Lag Type

5.1.1 MB10-M1□J-R, MB10-M1□J-Y

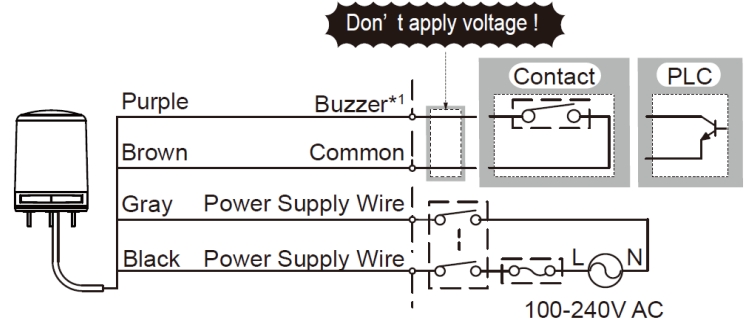


5.1.2 MB10-M1□J-M7

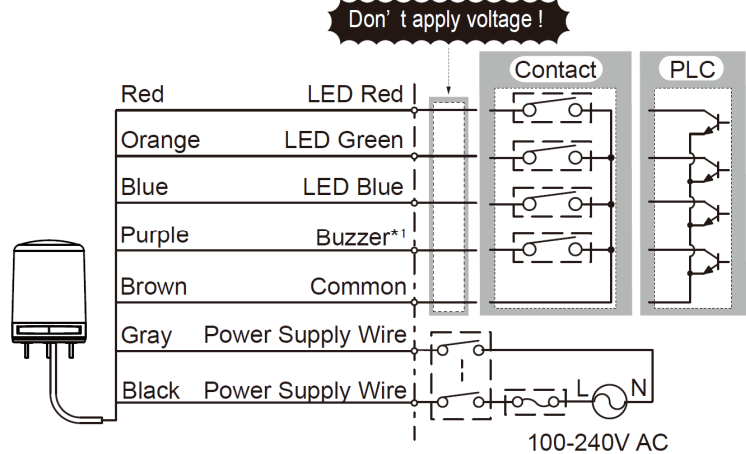


Wiring Color	Luminous Color
Red	Red
Green	Green
Blue	Blue
Red + Green	Amber
Green + Blue	Cyan
Red + Blue	Purple
Red + Green + Blue	White

5.1.3 MB10-M2□J-R, MB10-M2□J-Y



5.1.4 MB10-M2□J-M7



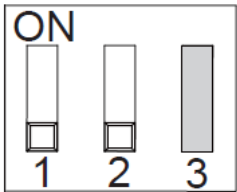
Wiring Color	Luminous Color
Red	Red
Orange	Green
Blue	Blue
Red + Orange	Amber
Orange + Blue	Cyan
Red + Blue	Purple
Red + Orange + Blue	White

6. Settings

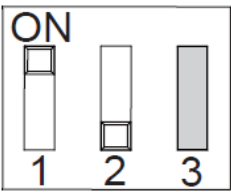
6.1 Flash Pattern and Sound Reduction settings

Flash Pattern and Sound Reduction setting is selectable by Setting switch.
 Setting switch is located inside the product and can be accessed by opening the globe.

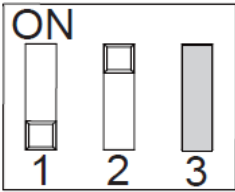
6.1.1 Flash Pattern



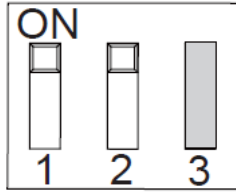
Rotation (Factory setting)



Blinking

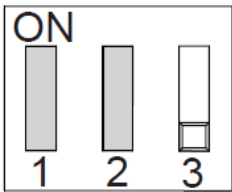


Triple-flash

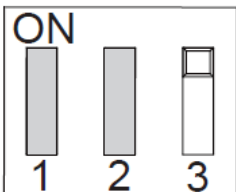


Continuous

6.1.2 Sound Reduction



Normal (Factory setting)



Sound Reduction