

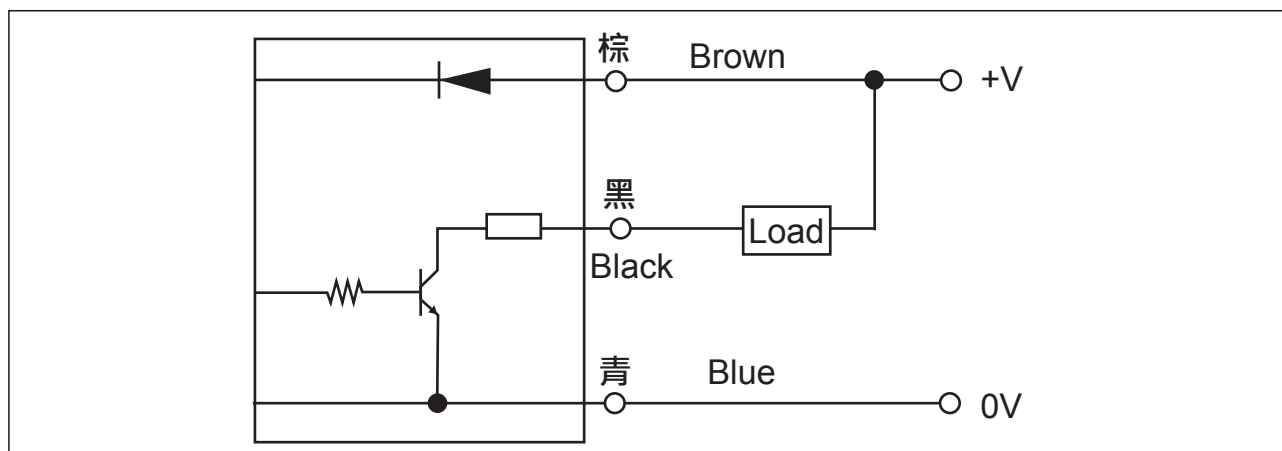
- Solid compact structure
 - 7 ϕ x43mm
 - M8x43mm
- Protection class
 - IP-67
- High reliability
 - Output short circuit protection
 - High noise resistance



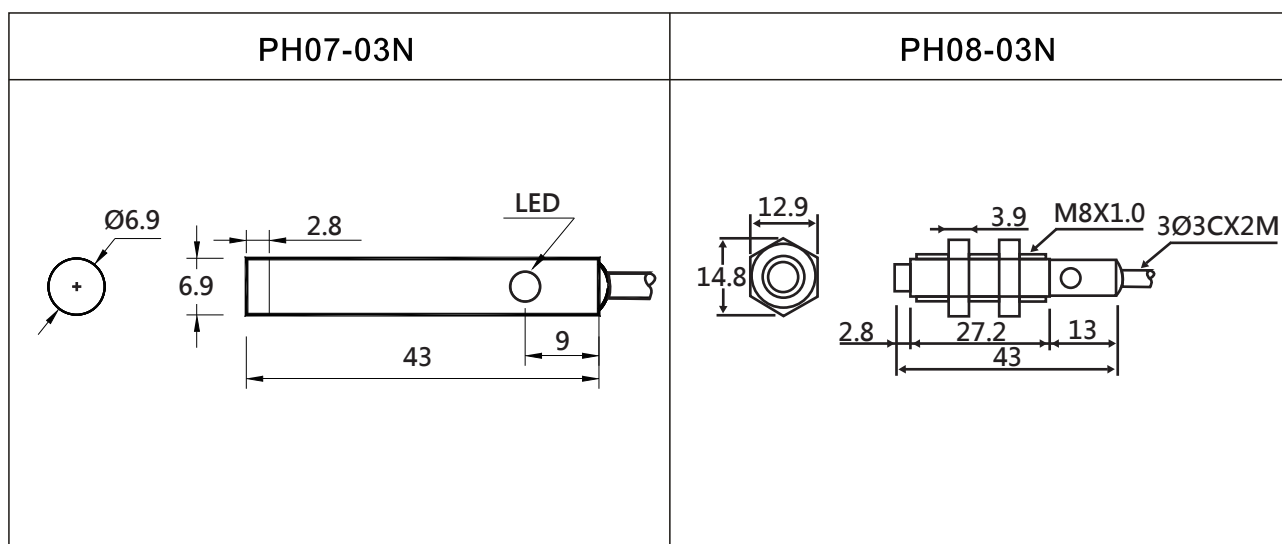
Specification 規格

Outline	外形	7 ϕ	M8
Model	型號	PH07-03N	PH08-03N
Type	型式	Reflex type	
Sensing distance	檢測距離	30 mm min.	
Hysteresis	應差	20% of sensing distance max.	
Response time	應答時間	1 ms max.	
Emitter	發射光源	Infrared LED	
Operating voltage	工作電壓	10 ~ 30VDC	
Ripple of power	電源漣波	20% peak to peak	
Current consumption	耗電流	15mA max.	
Pilot LED	指示燈	Green : Power pilot ; Yellow : Operating pilot	
Output method	輸出方式	NPN open collector	
Output status	輸出狀態	NO	
Output current	輸出電流	150mA max.	
Residual voltage	殘留電壓	0.1V max.	
Leakage current	洩漏電流	0.8mA max.	
Protection circuit	保護電路	Short circuit & polarity reversed protection	
Lead wire	出線長度	3c / 3.0 Φ x 3m	
Dielectric strength	耐壓強度	1kv / 1 minute min.	
Insulation strength	絕緣強度	100 M Ω / 500vdc	
Op. circumstance	工作環境	-20 $^{\circ}$ C ~ +80 $^{\circ}$ C ; 35% ~ 85% RH	
Protection class	保護等級	IP-67	

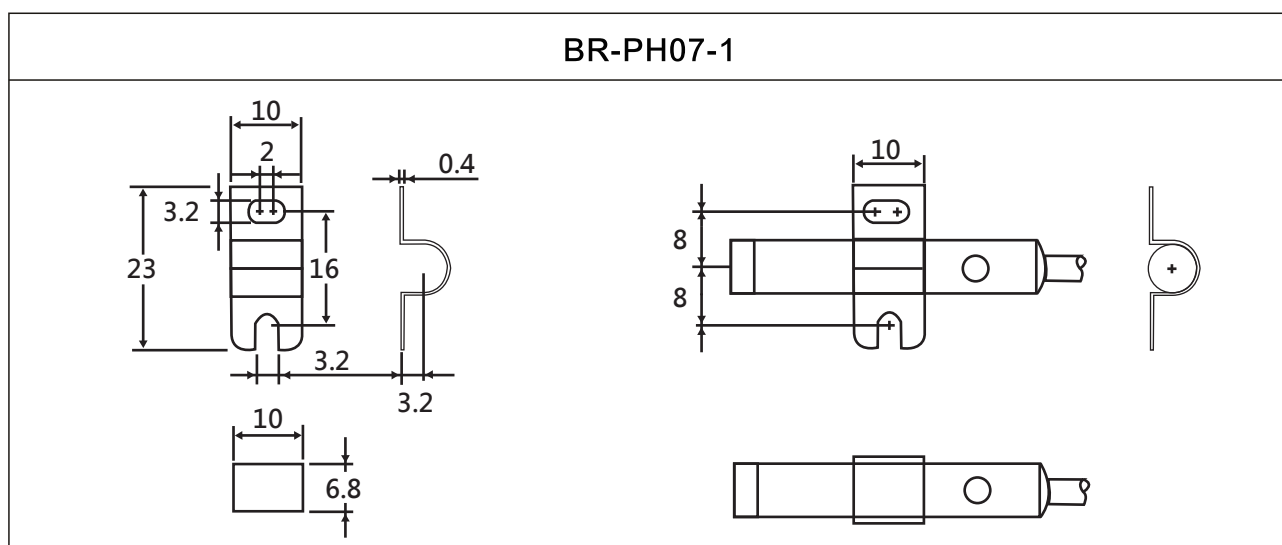
Output circuit & connection diagram 輸出回路及接線圖



Dimension 尺寸圖



Fixed bracket 固定角架



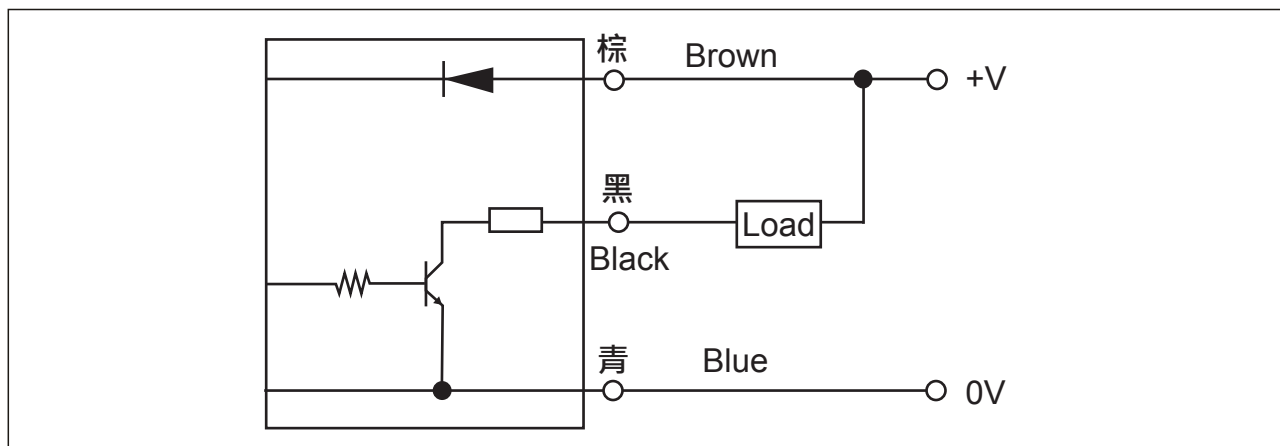
- Limited distance reflex type
 - Mini-plate outline
 - Mirror interruption immunized
- EX-03N less than 100 mm
EX-07N less than 200 mm



Specification 規格

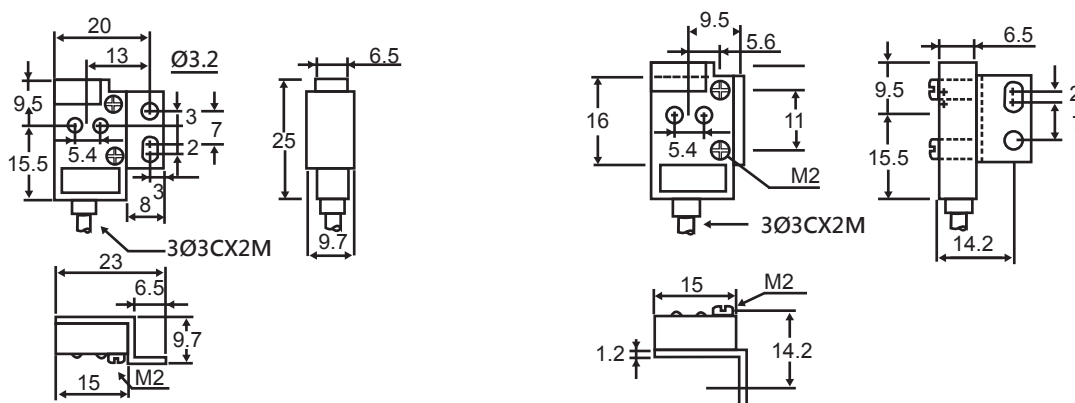
Type	型式	Limited distance reflex	
Model	型號	EX-03N	EX-07N
Emitter	發射光源	Red LED	Infrared LED
Sensing distance	檢測距離	25.0 mm	70.0 mm
Hysteresis	應差	20% of sensing distance max.	
Response time	應答時間	1 ms max.	
Operating voltage	工作電壓	10 ~ 30VDC	
Ripple of power	電源漣波	20% peak to peak	
Current consumption	耗電流	15mA max.	
Pilot LED	指示燈	Green : Power pilot ; Yellow : Operating pilot	
Output method	輸出方式	NPN open collector	
Output status	輸出狀態	NO	
Output current	輸出電流	150mA max.	
Residual voltage	殘留電壓	0.1V max.	
Leakage current	洩漏電流	0.8mA max.	
Illumination	耐外亂光	Sunlight < 20,000 Lux ; Lamplight < 5,000 Lux	
Protection circuit	保護電路	Short circuit & polarity reversed protection	
Lead wire	出線長度	3c / 3.0Φ x 3m	
Dielectric strength	耐壓強度	1kv / 1 minute min.	
Insulation strength	絕緣強度	100 MΩ / 500vdc	
Op. circumstance	工作環境	-20℃ ~ +80℃ ; 35% ~ 85% RH	
Protection class	保護等級	IP-65	

Output circuit & connection diagram 輸出回路及接線圖



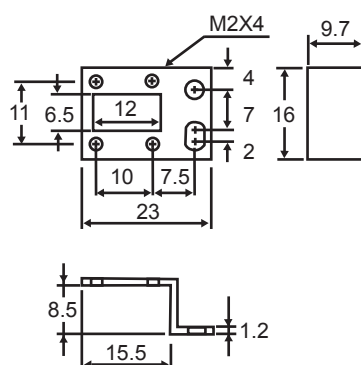
Dimension 尺寸圖

EX-03N & EX-07N

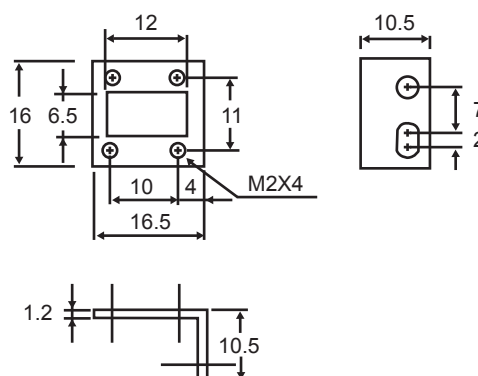


Fixed bracket 固定角架

BR-EX-1



BR-EX-2



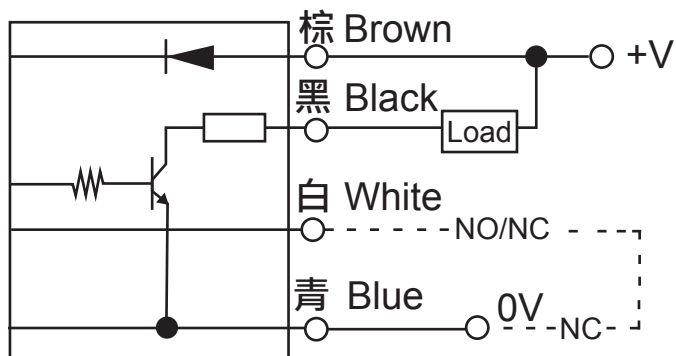
- Solid compact structure
12x30x17 (WxHxD mm)
- Protection class : IP-66
- NO/NC changeable
- Polarized mirror reflex type
E2G-1MRE
- Transparent object detectable
E2G-1MG



Specification 規格

Type	型式	Diffuse reflex		Mirror reflex			Thru beam
Model	型號	E2R-10N	E2R-30N	E2G-2MR	E2G-1MR	E2G-1MG	E2T-4MX
Sensing distance	檢測距離	10 cm	30 cm	2.0 m	1.2 m	1.2 m	4.0 m
Emitter	發射光源	Infrared LED		Red LED		Blue LED	Infrared LED
Hysteresis	應差	20% of sensing distance max.					
Response time	應答時間	1 ms max.					
Operating voltage	工作電壓	10 ~ 30VDC					
Ripple of power	電源漣波	20% peak to peak					
Current consumption	耗電流	25mA max.					
Pilot LED	指示燈	Green : Power pilot ; Yellow : Operating pilot					
Output method	輸出方式	NPN open collector					
Output status	輸出狀態	NO or NC selectable					
Output current	輸出電流	150mA max.					
Residual voltage	殘留電壓	0.1V max.					
Leakage current	洩漏電流	0.8mA max.					
Protection circuit	保護電路	Short circuit & polarity reversed protection					
Lead wire	出線長度	4c / 4.0Φ x 2m					
Dielectric strength	耐壓強度	1kv / 1 minute min.					
Insulation strength	絕緣強度	100 MΩ / 500vdc					
Op. circumstance	工作環境	-20℃ ~ +80℃ ; 35% ~ 85% RH					
Protection class	保護等級	IP-66					

Output circuit & connection diagram 輸出回路及接線圖



Output Status

NO : White wire open

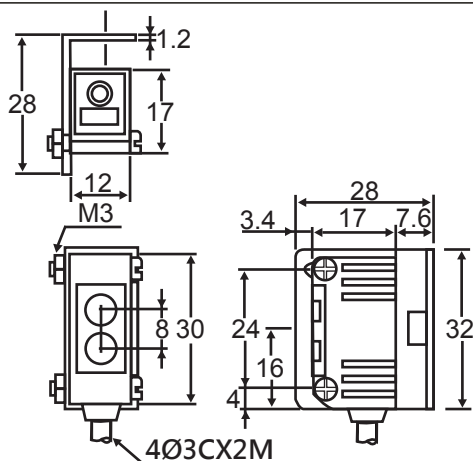
白色線不接

NC : White wire connected to 0V

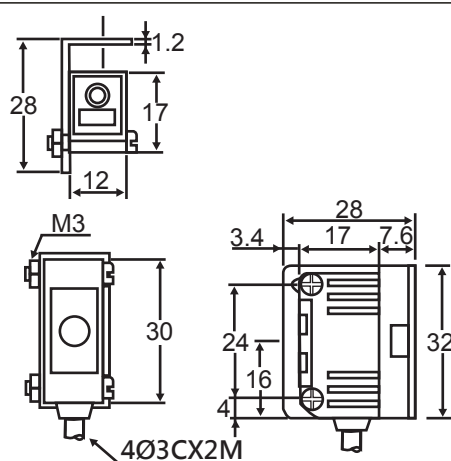
白色線接 0V

Dimension 尺寸圖

E2R-□□ / E2G-□□

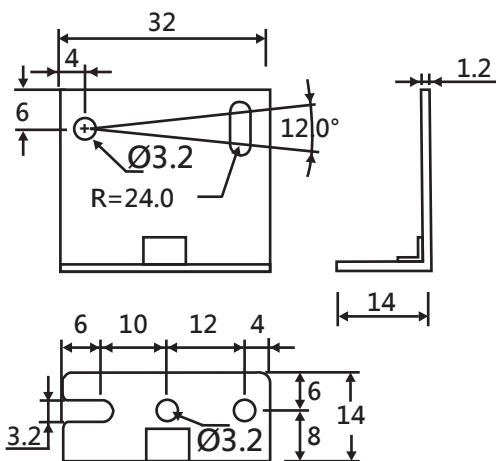


E2T-□□



Fixed bracket 固定角架

BR-E2-1



BR-E2-2

