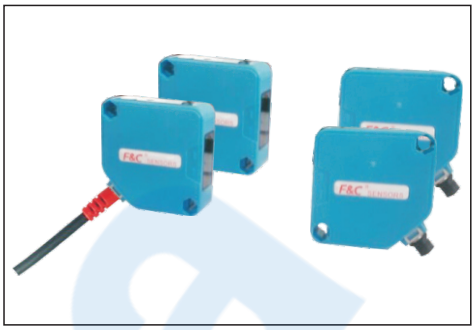
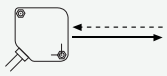
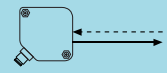
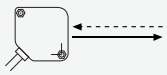
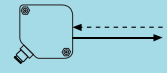
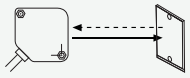
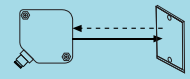
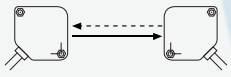
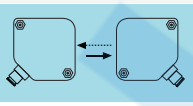
HR series photo sensor

Features:

- universal long distance photo sensor.
- diffuse type: 1m; Mirror type: 4m, through-beam: 10m
- powerful anti-interference and longtime lifespan



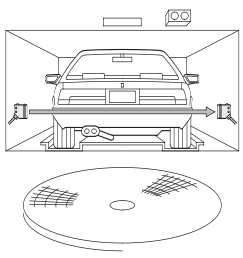
Procurement guide/

Category	Model	Detection Mode	Detection Distance	Standard Detection Object	Connecting Method
	HRRI-S40NC R2M HRRI-S40PC R2M	NPN.NO.NC PNP.NO.NC	40CM	10*10cm white paper	Φ4×2M/4-wires
	HRRI-S40NC/D R2M HRRI-S40PC/D R2M	NPN.NO.NC PNP.NO.NC	40CM	10*10cm white paper	4 pin M8 connector
	HRRI-S100NC R2M HRRI-S100PC R2M	NPN.NO.NC PNP.NO.NC	100CM	10*10cm white paper	Φ4×2M/4-wires
	HRRI-S100NC/D R2M HRRI-S100PC/D R2M	NPN.NO.NC PNP.NO.NC	100CM	10*10cm white paper	4 pin M8 connector
	HRMR-S400NC R2M HRMR-S400PC R2M	NPN.NO.NC PNP.NO.NC	400CM	Φ5 opaque objects	Φ4×2M/4-wires
	HRMR-S400NC/D R2M HRMR-S400PC/D R2M	NPN.NO.NC PNP.NO.NC	400CM	Φ5 opaque objects	4 pin M8 connector
	HRTI-S1000NC R2M HRTI-S1000PC R2M	NPN.NO.NC PNP.NO.NC	1000CM	Φ5 opaque objects	Φ4×2M/2-wires Φ4×2M/4-wires
	HRTI-S1000NC/D R2M HRTI-S1000PC/D R2M	NPN.NO.NC PNP.NO.NC	1000CM	Φ5 opaque objects	4 pin M8 connector

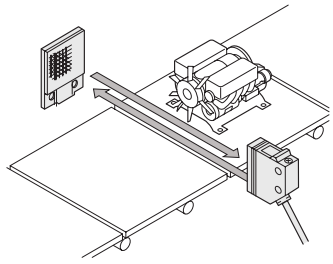
Note: /D= M8 connector ; /15D= M8 connector with 150mm pre-wire cable

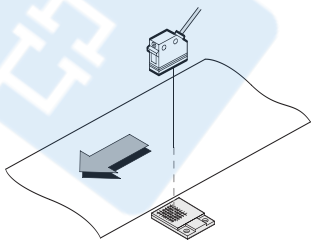
Application/

Confirmed the location of vehicles in the parking garage



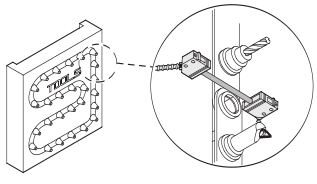
Detection Engine

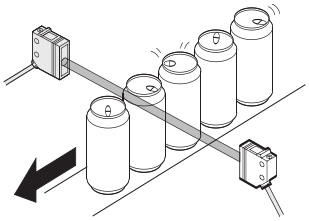




Detection of transparent thin

Detection of mechanical work tools





Can count

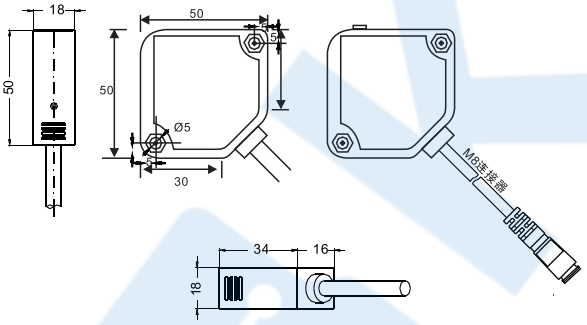
HR series photo sensor

■Specifications

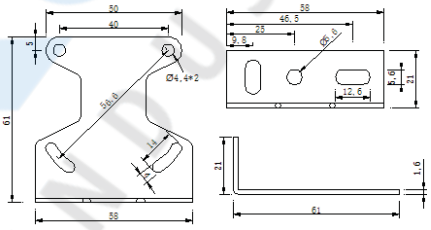
Model/ Sensing type	Reflective type		Mirror Reflective type	Through-beam type
	HRRI-S40NC R2M HRRI-S40PC R2M HRRI-S40NC/D R2M HRRI-S40PC/D R2M	HRRI-S100NC R2M HRRI-S100PC R2M HRRI-S100NC/D R2M HRRI-S100PC/D R2M	HRMR-S400NC R2M HRMR-S400PC R2M HRMR-S400NC/D R2M HRMR-S400PC/D R2M	HRTI-S1000NC R2M HRTI-S1000PC R2M HRTI-S1000NC/D R2M HRTI-S1000PC/D R2M
Scanning distance	40cm	100cm	400cm	1000cm
light source	850nm		630nm	850nm
Operating voltage	10～30V±10%（Ripple P-P：10% Max）			
Current consumption	15mA Max			
Load current/	100mA Max at DC 24V			
Output type	N=NPN.NO.NC P=PNP.NO.NC			
Protection circuit/	Reverse polarity protection and short circuit protection			
Response time/	0. 5 ms Max			
Insulation resistance	20MΩmin.（DC500V）			
dielectric strength	AC1000V 60Hz for 60 Sec			
Operating Temperature	-10℃～+50℃ without icing or condensation			
Ambient humidity	35%～85% （Relative Humidity）			
Storage temperarure/	-20℃～+60℃ without icing or condensation			
Storage humidity	35%～95%（Relative Humidity）			
Protection degree	IP66			
Material	ABS			
Wiring method	Φ4×2M/3-wires /Φ4×2M/2-wires /Φ4×2M/4-wires			
Weight	Approx. 107g			

■DiMensions

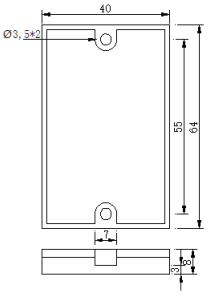
sensors



mounting bracket

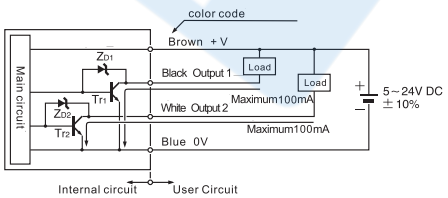


reflector board

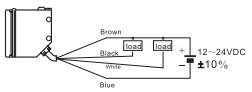


■Wiring schemes

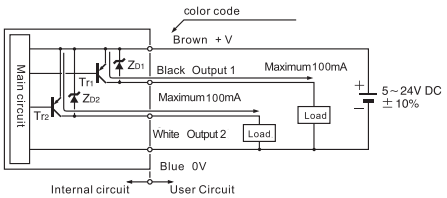
NPN. NO/NPN. NC



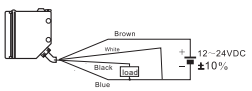
Wiring diagram



PNP. NO/PNP. NC

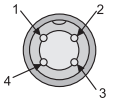


Wiring diagram





1 12-24VDC
2 Control output
3 0V



1. Normally close
2. 12~24VDC
3. Normally open
4. 0V