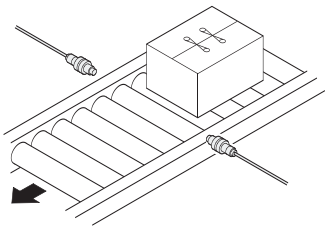
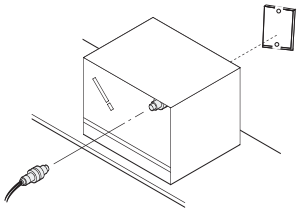
DR series photo sensor

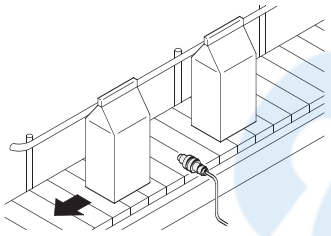
Detection of cardboard boxes

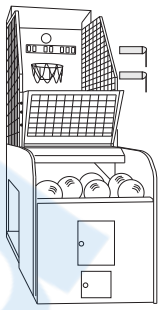




Detect shiny objects

Detection of milk cartons





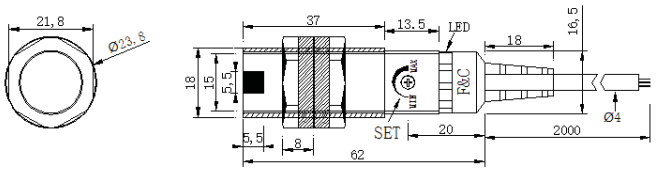
Detection Basketball

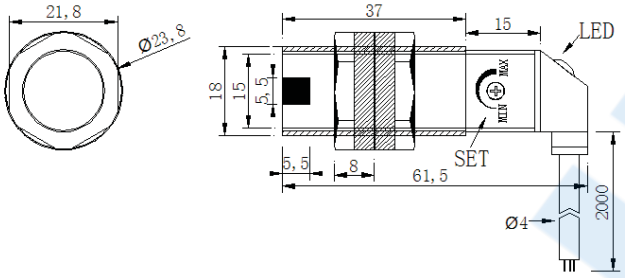
Sensing type \ Model	through-beam		Mirror	Diffuse	
Direct outlet	DR18TI-S1000N R2M DR18TI-S1000N2 R2M DR18TI-S1000P R2M DR18TI-S1000P2 R2M DR18TI-S1000NC R2M DR18TI-S1000PC R2M	DR18TI-S500N R2M DR18TI-S500N2 R2M DR18TI-S500P R2M DR18TI-S500P2 R2M DR18TI-S500NC R2M DR18TI-S500PC R2M	DR18MR-S200N R2M DR18MR-S200N2 R2M DR18MR-S200P R2M DR18MR-S200P2 R2M DR18MR-S200NC R2M DR18MR-S200PC R2M	DR18RI-S40N R2M DR18RI-S40N2 R2M DR18RI-S40P R2M DR18RI-S40P2 R2M DR18RI-S40NC R2M DR18RI-S40PC R2M	DR18RI-S10N R2M DR18RI-S10N2 R2M DR18RI-S10P R2M DR18RI-S10P2 R2M DR18RI-S10NC R2M DR18RI-S10PC R2M
Connector	DR18TI-S1000N/15D R2M DR18TI-S1000N2/15D R2M DR18TI-S1000P/15D R2M DR18TI-S1000P2/15D R2M DR18TI-S1000NC/15D R2M DR18TI-S1000PC/15D R2M	DR18TI-S500N/15D R2M DR18TI-S500N2/15D R2M DR18TI-S500P/15D R2M DR18TI-S500P2/15D R2M DR18TI-S500NC/15D R2M DR18TI-S500PC/15D R2M	DR18MR-S200N/15D R2M DR18MR-S200N2/15D R2M DR18MR-S200P/15D R2M DR18MR-S200P2/15D R2M DR18MR-S200NC/15D R2M DR18MR-S200PC/15D R2M	DR18RI-S40N/15D R2M DR18RI-S40N2/15D R2M DR18RI-S40P/15D R2M DR18RI-S40P2/15D R2M DR18RI-S40NC/15D R2M DR18RI-S40PC/15D R2M	DR18RI-S10N/15D R2M DR18RI-S10N2/15D R2M DR18RI-S10P/15D R2M DR18RI-S10P2/15D R2M DR18RI-S10NC/15D R2M DR18RI-S10PC/15D R2M
Scanning distance	10m	5m	2m	40cm	10cm
light source	850um infrared modulated				
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 N2=NPN. NC P=PNP. NO P2=PNP. NC NC=NPN. NO. NC C=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℃				
Ambient humidity	35%～85%				
Storage temperarure	-20℃～+60℃				
Storage humidity	35%～95%				
Protection degree	IP66				
Material	ABS				
Wiring method	Φ4×2M/3-wires /Φ4×2M/2-wires /Φ4×2M/4-wires				
Weight	Approx. 107g				

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

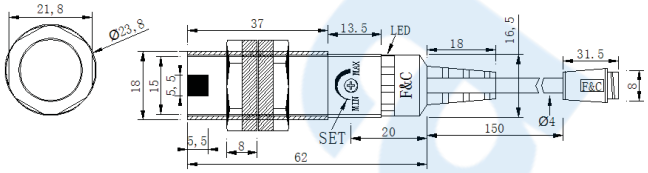
DR series photo sensor

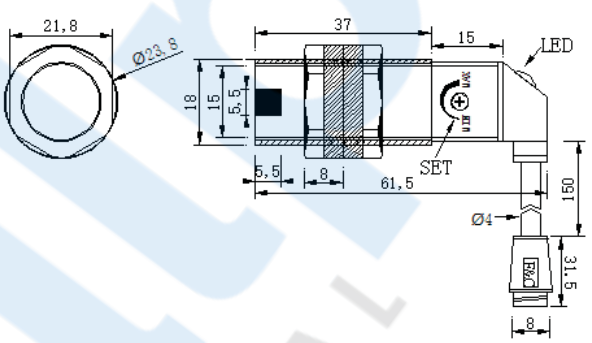
wire type



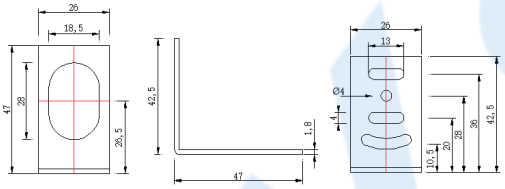


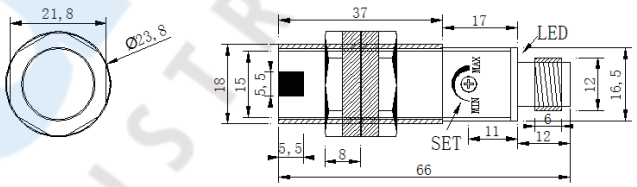
Connector type





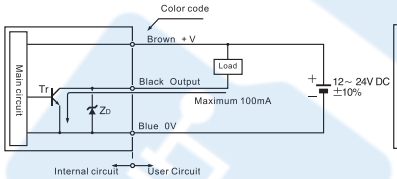
Sensor mounting bracket



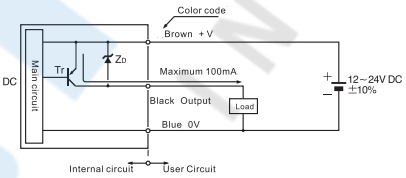


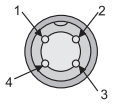
Wiring schemes

NPN. NO/NPN. NC



PNP. NO/PNP. NC



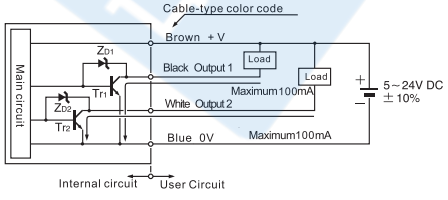


1.
2.12~24VDC
3. output control
4.0V

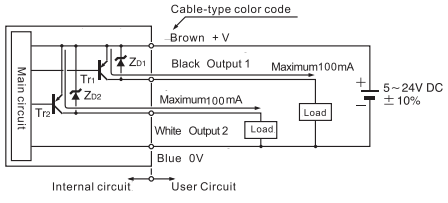


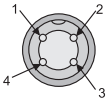
1 12-24VDC
2 Control output
3 0V

NPN. NO/NPN. NC



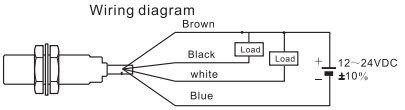
PNP. NO/PNP. NC



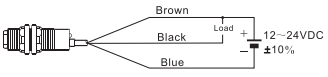


1. NC
2.12~24VDC
3. NO
4.0V

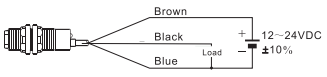
Wiring diagram



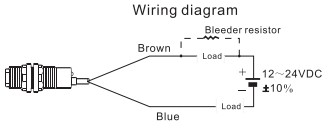
Wiring diagram



Wiring diagram



Wiring diagram



Wiring diagram

