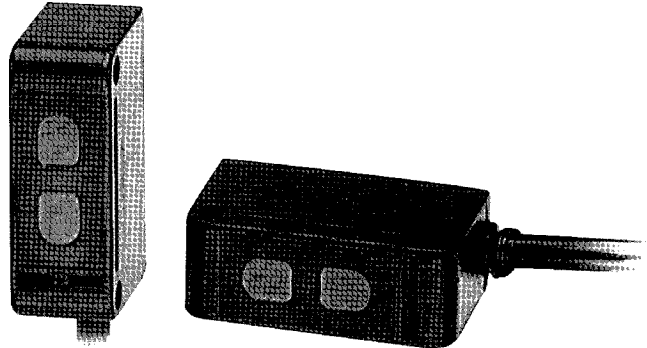





Distance reflective type

■Features

- Built-in reverse polarity protection, surge protection, short-circuit protection.
- Response time can be adjusted by the sensiti.
- It is not influenced by surrounding objects and target's color within detecting range.
- Power voltage 12 to 240VDC.



■Ordering information

Type	Detecting distance	Model	Operating voltage	Operating mode	Output
Diffuse reflective 	 30mm	BYD30-DDT-T (Standing type)	DC 	Light ON	NPN open collector

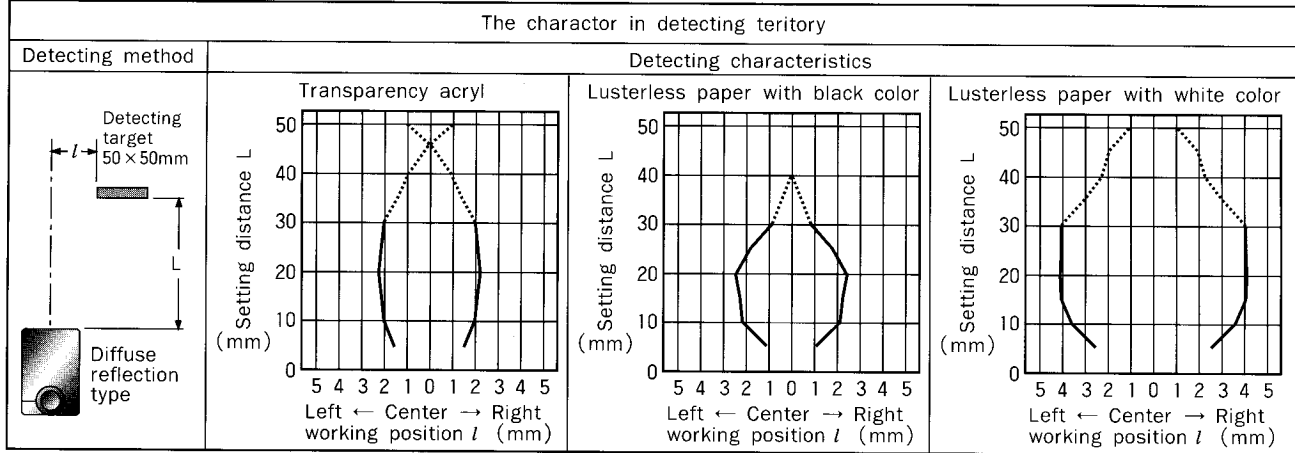
■Specification

Type	Through
Model	BYD30-DDT-T
Detecting distance	15 to 30mm(50×50mm White tissue)
Detecting target	Transparent, Translucent, Opaque materials
Response time	Max. 3mS to 100mS(case:Min. Timer VR)
Hysteresis	Max. 20% at rated setting distance
Power supply	12 to 24VDC ±10% (ripple P-P:Max. 10%)
Power consumption	Max. 40mA
Source of light	Infrared LED
Sensitivity	Fixed
Operating mode	Light ON mode fixed
Control output	NPN open collector output ↗ load voltage Max. 30VDC ,load current Max. 50mA, residual voltage Max. 1V
Protection circuit	Short-circuit protection, Reverse polarity protection
Timer function	● OFF delay ● Delay time:0.1 to 1sec(VR adjustable)
Indicator	Operating indicator : red LED
Connection	Cable connection
Insulation resistance	Min. 20M Ω (500VDC)
Noise strength	Power line ±240V at pulse band 1μs of noise simulation
Dielectric strength	1,000VAC 50/60Hz for 1minute
Vibration	1.5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 2 hours
Shock	500m/s ² (50G) in X, Y, Z directions for 3 times
Ambient operating illumination	Sunlight:11,000 Lux. Max., Incandescent lamp:3,000 Lux. Max.
Ambient temperature	Operating:-20 to 65℃(non-freezing condition), Storage:-40 to 70℃
Humidity	35 to 85% RH, Storage:35 to 95% RH
Structure of protection	IP54(IEC specification)
Material	Case:ABS, Lens:Acryl
Cable	3P, φ 4mm, length:2m
Weight	About 55g
Accessories	Screw driver

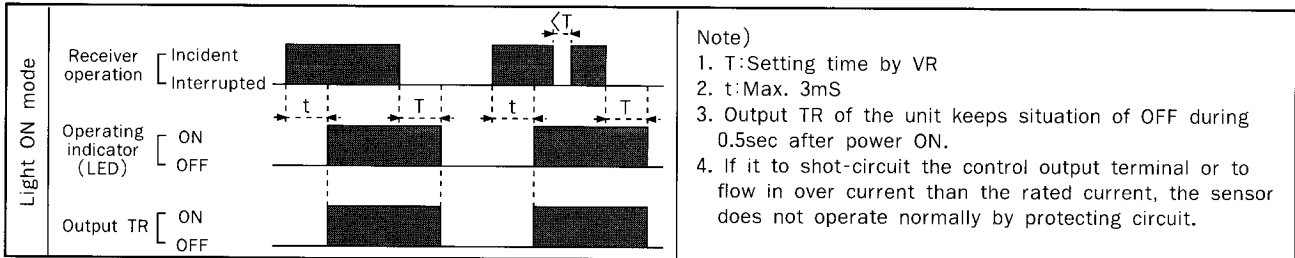
※The weight of above chart is net weight.

BYD SERIES

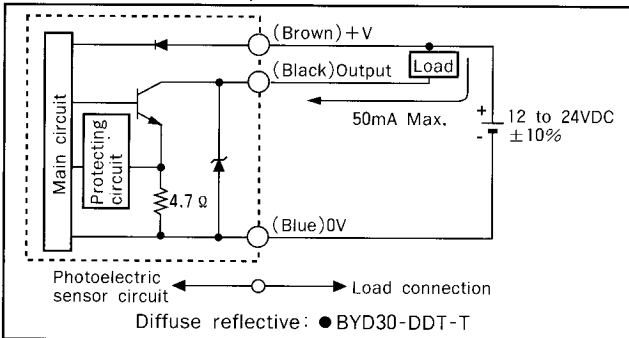
■ Diffuse reflective type



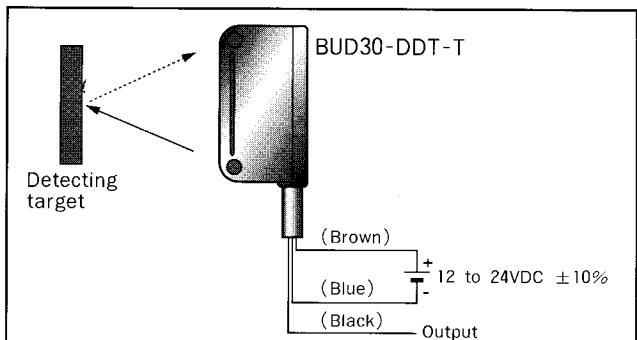
■ Operating mode and time chart



■ Control output circuit



■ Connection



■ Dimensions

