



## Takenaka Sensor - GT1SN

URL:https://www.sxplc.com/takenaka-sensor-gt1sn

## **Product data sheet**

Detection method	Through beam
Detecting distance	1[]
Detection object	dia.6mm (oe more) Opaque
Power supply	12-24V DC ±10□ / Ripple 10□ or less
Current consumption	Transmitter: 23mA or less
	Receiver: 18mA or less
Output mode	Control output : NPN open collector output Rating:
	sink current 100mA (30 VDC) or less
	Stability output : NPN open collector output Rating:
	sink current 50mA (30 VDC) or less
Operation mode	Light-ON/Dark-ON selectable (with switch)
Response time	0.35ms or less
Operating angle	30°(at receiver)
Light source (light wavelength)	Infrared LED (880nm)
Indicator	Transmitter: Power indicator (red LED)
	Receiver: Operation indicator (red LED)
	Stability indicator (green LED)
Volume	SENS: Sensitivity adjusment (on receiver for
	through-beam type)

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Switch	Light-ON/Dark-ON selector switch provided
Short circuit protection	Provided (for control output only)
Material	Case : Polyarylate
	Lens : Polycarbonate
Connection	Cable type (outer diameter: 3mm; length 2m)
	Transmitter: 0.15mm2 x 2 cores (gray)
	Receiver: 0.15mm2 x 3 cores (black)
Weight	Approx. 50g (transmitter/receiver)
Accessories	Mounting bracket, operation manual, Pinhole sheets
	provided

## **Environmental Specification**

Ambient light	5,000 lx or less
Ambient temperature	-25 - +55 °C (non-freezing)
Ambient humidity	35-85%RH (non-condensing)
Protective structure	IP67
Vibration	10-55 Hz / 1.5 mm double amplitude / 2 hours each
	in 3 direction
Shock	500 m/s2 / 3 times each in 3 directions
Dielectric strength	1,000 VAC for 1 minute
Insulation resistance	500 VDC, 20 MΩ or higher

