



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 $\pm 10\%$ / 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 adjustment (on receiver for through-beam type)

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: 0.15mm ² x 2 cores (gray) Receiver: 0.15mm ² 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/s ² / 3 times each in 3 directions
Dielectric strength	1,000 VAC for 1 minute
Insulation resistance	500 VDC, 20 MΩ or higher

