Technical Data and Specifications

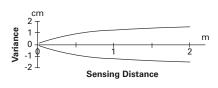
NanoView Series Sensors

Description	For E71-T/N (Thru-Beam) Specification	For E71-P (Polarized Reflex) Specification	For E71-S (Diffuse Reflective) Specification	For E71-F (Fixed Focus Diffuse) Specification	For E71-C (Clear Object Detector) Specification
Input voltage	10-30 Vdc				
Current consumption (Output current excluded)	35 mA max.				
Outputs	Light operate and dark operate; PNP or NPN by model; 30 Vdc max.	Light operate and dark operate; PNP or NPN by model; 30 Vdc max.	Light operate and dark operate; PNP or NPN by model; 30 Vdc max.	Light operate and dark operate; PNP or NPN by model; 30 Vdc max.	Light operate and dark operate; PNP or NPN by model; 30 Vdc max.
Output current	100 mA max.				
Output saturation voltage	2V max.				
Electrical protection	Short circuit and reverse polarity protection	Short circuit and reverse polarity protection	Short circuit and reverse polarity protection	Short circuit and reverse polarity protection	Short circuit and reverse polarity protection
Response time	1 ms max.				
Switching frequency	500 Hz max.				
Indicator LEDs	Output LED (yellow), stability LED (green), power LED (green)	Output LED (yellow), stability LED (green), power LED (green)	Output LED (yellow), stability LED (green), power LED (green)	Output LED (yellow), stability LED (green), power LED (green)	Output LED (yellow), stability LED (green), power LED (green)
Sensing adjustment	None	Adjustment pot	Adjustment pot	None	Adjustment pot
Temperature range Operating	–25° to 55°C (–13° to 131°F)	–25° to 55°C (–13° to 131°F)	–25° to 55°C (–13° to 131°F)	−25° to 55°C (−13° to 131°F)	−25° to 55°C (−13° to 131°F)
Storage	-25° to 70°C (-13° to 158°F)				
Sensing range	Standard beam: 19.7 ft (6.0m) Narrow beam: 4.9 ft (1.5m)	8.2 ft (2.5m)	13.8 in (35 cm)	3.9 in (10 cm)	31.5 in (80 cm)
Beam type	Infrared LED (880 nm)	Visible red LED (660 nm)	Infrared LED (880 nm)	Visible red LED (660 nm)	Visible red LED (660 nm)
Vibration and shock	Vibration: 0.5 mm amplitude, 10–55 Hz for every axis (EN60068-2-6); Half sine, 30 g _n , 11 ms, 3 axes	Vibration: 0.5 mm amplitude, 10–55 Hz for every axis (EN60068-2-6); Half sine, 30 g _n , 11 ms, 3 axes	Vibration: 0.5 mm amplitude, 10–55 Hz for every axis (EN60068-2-6); Half sine, 30 g _n , 11 ms, 3 axes	Vibration: 0.5 mm amplitude, 10–55 Hz for every axis (EN60068-2-6); Half sine, 30 g _n , 11 ms, 3 axes	Vibration: 0.5 mm amplitude, 10–55 Hz for every axis (EN60068-2-6); Half sine, 30 g _n , 11 ms, 3 axes
Housing material	ABS UL 94V-0				
Lens material	PMMA	PMMA	PMMA	PMMA	PMMA
Mechanical protection	IP67	IP66	IP66	IP67	IP66
Connections	M8 4-pin nano-connector; 6 ft (2m) cable				
Weight	Connector models: 40g max. Cable models: 10g max.				

Detection Diagrams

Thru-Beam Models





E71-T

