PS - Micro Spot

Model	PS-MTB-30M	PS-MTB-15M	PS-MTB-10M	PS-MR-3M	PS-MD-150
Sensing Type	Through Beam	Through Beam	Through Beam	Retroreflective	Diffuse
Sensing Distance	30M	15M	10M	3M	150mm
Setting Distance					40-120mm (white Paper (100x100) 40 to 60mm (black Paper 100mm x 100mm)
Hysteresis					5% of setting distance max
Black/ White error					5% (of 157mm)
Visable Light Source Laser	655nm				
Light Sorce	JIS/IEC Class 1 FDA Class1 2mW max	JIS/IEC Class 1 FDA Class1 2mW max	JIS/IEC Class 1 FDA Class1 2mW max	JIS/IEC Class 1 FDA Class1 1mW max	JIS/IEC Class 1 FDA Class1 4.5mW max
Hysteresis					5% of setting distance max
Supply Voltage	12 -24V DC +/- 10%, Ripple (P-P) 10% Max				
Current	15mA max reciever, 20mA max Transmitter			30mA max	
Control Output	Load power supply voltage 26.4 VDC max, load current 100mA max., open collector output, Light-ON/ Dark-On switch selectable				
Residual Voltage	1 V or Less: Load Current Less than 10mA. 2V or less Load current less than 10 to 100 mA				
Response Time	1ms Max				
Ambient Temperature	Operating -10 to +55, Storage -25 to +70C (No Freezing or Condisation)				
Ambient Humidity	Operating - 35 to 85%, Storage 35 to 95% (No Freezing or Condisation)				
Protection	IP67				
Material	**Case**	Polybutylene Terephthalate Resin (PBT)			
	Display	Denatured Polyarylate Resin			
	Lens	Denatured Polyarylate Resin		Arcylic Resin	Denatured Polyarylate Resin

PS - Standard Spot

Model	PS-LTB-15M	PS-LTB-10M	PS-LTB-7M	PS-LR-3M	PS-LD-300	PS-LD-100
Sensing Type	Through Beam	Through Beam	Through Beam	Retroreflective	Diffuse	Diffuse
Sensing Distance	15M	10M	7M	3M	300mm (Non Glossy white paper 300 x 300mm)	100mm (Non Glossy white paper 300 x 300mm)
Sensing Target	Opaque Material over 12mm			Opaque Material over 75mm	Translucent Opaque Materials	
Hysteresis					max 20% at sensing distance	
Response Time	max 1ms					
Power Supply	12-24V DC +- 10% (Ripple P-P: max 10%)					
Current	Emitter / Reciever: Max 20mA			Max 30mA		
Light Source	Infrared led (850nm)	Infrared led (660nm)	Infrared led (650nm)	Infrared led (660nm)	Infrared led (660nm)	Infrared led (850)nm)
Sensitivity Adjustment	Built-in VR					
Operation Mode	Light on / Dark on selectable on sensor					
Control Output	Load Voltage : Max 26.4V DC, Load Current: Max 100mA, Residual Voltage: NPN: Max 1V, PNP Max 2.5V					
Protection Circuit	Reverse Polarity protection, output short protection, interference prevention protection (except through beam type)					
Indicator	Operation: red Stable, Green Emitter power indication (green)					
Insulation Resistence	Max 20M ohms (at 500V DC megger)					
Noise Immunity	(+- 20M ohm the square wave noise (pulse width: 1us))					
Dielectric Strength	1000VAC 50/60 Hz for 1 min					
Shock	500m/s squared (aprox 50G in X,Y Z directions					
Vibration	1.5mm amplitude or 300m/s squared at Frequency of 10 to 55Hz (for 1 min) in x, y z for 2 hours)					
Ambient Illumination	Sunlight: Max 11,0001x, Incandescent Lamp: Max 3,0001x x (receiver illumination)					
Ambient Temperature	(-25 to 55C) Storage (-40 to 70C)					
Ambient Humidity	35 to 85%RH, Storage: 35 to 85%RH					
Material	**Case**	Polybutylene Terephthalate Resin (PBT)				
	Display	Denatured Polyarylate Resin				
	Lens	Denatured Polyarylate Resin		Arcylic Resin	Denatured Polyarylate Resin	
Cable	3.5 Diamter - 24 Gauge, 2M Long					