Reliability Data for Safety of Machinery

Photoelectoric sensor



OMRON Corporarion

15-Dec-23

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			1			E-9 means *1	0 ⁻⁹ .			Blue character : Updated items since previous data
Products	Model	Condition / Function	SIL	PFHd	PL	Category	MTTFd(Year)	DCavg (%)	B10d	Note
Photoelectoric sensor	E3Z-T**	Through-beam	-	1.51E-07	-	-	754	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-R**	Retro-reflective	-	1.13E-07	-	-	1012	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-D**	Diffuse-reflective	-	1.13E-07	_	_	1012	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-LS**	Distance-settable	-	2.24E-07	_	-	510	_	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-L**	Limited-reflective	_	1.11E-07	_	_	1028	-	1	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-B**	Retro-reflective without MSR function	-	5.55E-08	_	-	2056	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-G**	Through-beam ,Slot-type	_	1.40E-07	_	_	817	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-LT**	Through-beam ,Laser	-	1.07E-07	-	-	1067	_	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-LR**	Retro-reflective ,Laser	_	7.21E-08	_	_	1583	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3Z-LL**	Distance-settable ,Laser	-	1.47E-07	-	-	775	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-FT**	Through-beam ,flat type	-	2.87E-07	_	_	398	_	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-FT**F	Through-beam ,sideview type	-	2.90E-07	-	-	393	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-ST**	Through-beam ,sideview type	-	2.87E-07	_	_	398	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-ST**F	Through-beam ,sideview type	-	2.90E-07	-	-	393	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-FL**	BGS reflective ,fixed distance ,flat type	-	1.75E-07	_	_	653	_	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-SL**	Limited-reflective ,sideview type	-	1.64E-07	_	-	696	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-SR**	Retro-reflective ,sideview type	_	1.64E-07	_	_	696	_	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3T-FD**	Diffuse-reflective ,flat type	-	1.64E-07	_	-	696	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.

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Products	Model	Condition / Function	SIL	PFHd	PL	Category	MTTFd(Year)	DCavg (%)	B10d	Note
Photoelectoric sensor	E3AS-HL**	Distance-settable ,CMOS Laser sensor	_	3.47E-07	_	_	329	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3AS-F**	Distance-settable ,Time of Fllight Laser sensor	-	1.68E-07	_	-	678	-	-	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.
Photoelectoric sensor	E3AS-L**	Distance-settable	_	1.24E-07	_	_	919	_	_	This product does NOT conform to requirements of IEC61496-1 and IEC61496-2. Please do NOT use this product for human body protection. The MTTFd value is a calculated value. In Category 1 classification, MTTFd evaluation is capped at 100 years, so if you use the MTTFd value to evaluate the device, evaluate the MTTFd value as 100 years.