Reliability Data for Safety of Machinery

Safety Components

								DO (11)		
Products E-STOP Switch	Model A165E series	Condition / Function Normally Closed contact	SIL	PFHd	PL -	Category	MTTFd(Year)	DCavg (%)	B10d 1.0E+5	Note Normally closed contact conforms to IEC60947-5-1 (Direct Opening Mechanism).
E-STOP Switch	A22E series	Normally Closed contact	-	-	-	-	-	-	1.0E+5	Normally closed contact conforms to IEC60947-5-1 (Direct Opening Mechanism).
Guard Lock Safety Key Selec Switch	AZZLK-ZRL[]	Normally Closed contact	-	-	-	-	-	-	1.0E+5	Normally closed contact has a structure that conforms to IEC60947-5-1 (Direct opening mechanism) only when the key is turned to right.
Key Selector Switch Key Selector Switch	A22TK-2[]L A22TK-2[]R	Normally Closed contact Normally Closed contact	-	-	-	-	-	-	1.0E+5 1.0E+5	Normally closed contact has a structure that conforms to IEC60947-5-1 (Direct opening mechanism) only when the key is turned to Normally closed contact has a structure that conforms to IEC60947-5-1 (Direct opening mechanism) only when the key is turned to
Enabling Switch	A4E	Enable output	-	-	-	-	-	-	1.0E+5	The enabling output has a structure that conforms to IEC60947-5-8 (Three-position enabling switch). The enabling output has a structure that conforms to IEC60947-5-1 (Direct Opening Mechanism) only when the switch is gripped.
Enabling Grip Switch	A4EG	Built-in enabling switch (A4E) Enable Output	-	-	-	-	-	-	1.0E+5	The enabling output has a structure that conforms to IEC60947-5-8 (Three-position enabling switch). Enabling outputs conform to IEC60947-5-1 (Direct Opening Mechanism) only when the switch is gripped.
Enabling Grip Switch	A4EG	Built-in E-Stop (A165E) NC contact *only A4EG- BE2R041	-	-	-	-	-	-	1.0E+5	Normally closed contact conforms to IEC60947-5-1 (Direct Opening Mechanism).
Safety Limit Switch	D4B-[][]11N	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4B-[][]15N	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4B-[][]70N	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4B-[][]71N	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Door Switch	D4BL Series	Normally Closed contact	-	-	-	-	-	-	2.0E+6	It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Door Switch	D4BS Series	Normally Closed contact	-	-	-	-	-	-	2.0E+6	It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4F-[]02	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4F-[]20	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Door Switch	D4GL Series	Normally Closed contact	-	-	-	-	-	-	2.0E+6	It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Door Switch	D4GS-N Series	Normally Closed contact	-	-	-	-	-	-	2.0E+6	It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Door Switch	D4JL Series	Normally Closed contact	-	-	-	-		-	2.0E+6	It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]20	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]20R	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]22	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]25	Normally Closed contact	-	-	-	-		-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]26	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc Opening Mechanism).
Safety Limit Switch	D4N-[][]2G	Normally Closed contact	-	-	-	-	-	-	2.0E+7	It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]2GR	Normally Closed contact			-			-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]2H	Normally Closed contact	-	-	-	-		-	2.0E+7	Upening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]2HR	Normally Closed contact	-	-	-	-	-	-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]31	Normally Closed contact		-	-	-		-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]31R	Normally Closed contact	-	-	-	-	-	-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]32	Normally Closed contact	-		-	-	-	-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]32R	Normally Closed contact			-				2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]62	Normally Closed contact							2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]62R	Normally Closed contact	-					-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
•									2.0E+7 2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]72	Normally Closed contact	-	-	-	-	-	-		Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Limit Switch	D4N-[][]72R	Normally Closed contact	-	-	-	-	-	-	2.0E+7	Opening Mechanism). It can be applicable as Type 1 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Door Hinge Switch	D4NH Series	Normally Closed contact	-	-	-	-	-	-	2.0E+7	Opening Mechanism). It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Door Switch	D4NL Series	Normally Closed contact	-	-	-	-	-	-	2.0E+6	Opening Mechanism). It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Door Switch	D4NS Series D4SL Series, D4SL-N	Normally Closed contact	-	-	-	-	-	-	2.0E+6	Opening Mechanism). It can be applicable as Type 2 interlocking switch according to ISO 14119. Normally closed contact conforms to IEC 60947-5-1 (Direc
Safety Door Switch Safety Relay	Series G7S-[]-E	Normally Closed contact AC-15 240V 5A	-	-	-	-	-	-	2.0E+6 2.0E+5	Opening Mechanism). This product conforms to EN50205 Forcibly Guided Contact Structure.
Safety Relay	G7S-[]-E G7S-[]-E G7S-[]-E	AC-15 240V 5A AC-15 240V 1.5A	-	-	-	-	-	-	5.0E+5	This product conforms to EN50205 Forcibly Guided Contact Structure.

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Reliability Data for Safety of Machinery

Safety Components

OMRON Corporation				11-Oct-2016		Contents of E-9 means *1	-	nent are sub	ject to ch	ange without notice.
Products	Model	Condition / Function	SIL	PFHd	PL	Category	MTTFd(Year)	DCavg (%)	B10d	Note
Safety Relay	G7SA	AC-1 AC250V 6A, DC-1 DC30V 6A	-	-	-	-	-	-	4.0E+5	This product conforms to EN50205 Forcibly Guided Contact Structure.
Frequency Inverter MX2 Series	3G3MX2-V1	Stop function in conformity to Stop Category 0	-	-	d	3	100	71	-	It has a structure that conforms to IEC60204-1 Stop Category 0. As a subsystem, it comforms to ISO13849-1 PLd.
Non-conntact Door Switch	D40A	Safety Output	SIL2	2.4E-9	d	3	100	62	-	It can be applicable as Type 4 interlocking switch according to ISO 14119. A non-contact door switch alone conforms as a subsystem to IEC61508 SIL2. The reliability of the whole system is determined upon it being combined with a connected dedicated controller
Non-conntact Door Switch	D40Z	Safety Output	SIL3	1.5E-10	е	4	2500	98	-	It can be applicable as Type 4 interlocking switch according to ISO 14119. A non-contact door switch alone conforms as a subsystem to IEC61508 SIL3. The reliability of the whole system is determined upon it being combined with a connected dedicated controller
Safety Network Controller	DST1-ID12SL-1		SIL3	2.4E-10	е	4	-	-	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Network Controller Safety Network Controller	DST1-MD16SL-1 DST1-XD0808SL-1		SIL3 SIL3	2.4E-10 2.4E-10	e	4	-	-	-	As a subsystem, it conforms to IEC61508 SIL3. As a subsystem, it conforms to IEC61508 SIL3.
Safety Network Controller	DST1-MRD08SL-1		SIL3	5.1E-9	e	4	-	-	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Light Curtain	F3SG-2RA[]		SIL1	1.1E-8	С	2	100	98	-	It comforms to IEC 61496-1 TYPE 2. As subsystem, it conforms to IEC61508 SIL 1 and ISO13849-1 PL c. For a cascade configuration, multiply the PFHd value by the number of sensor segments cascaded. The MTTFd value does not change when in a cascade configuration.
Safety Light Curtain	F3SG-4RA[]		SIL3	1.1E-8	e	4	100	98	-	It comforms to IEC 61496-1 TYPE 4. As subsystem, it conforms to IEC61508 SIL 3 and ISO13849-1 PL e. For a cascade configuration, multiply the PFHd value by the number of sensor segments cascaded. The MTTFd value does not change when in a cascade configuration.
Safety Light Curtain	F3SG-2RE[]		SIL1	9.1E-9	с	2	100	98	-	It comforms to IEC 61496-1 TYPE 2. As subsystem, it conforms to IEC61508 SIL 1 and ISO13849-1 PL c. For a cascade configuration, multiply the PFHd value by the number of sensor segments cascaded. The MTTFd value does not change when in a cascade configuration.
Safety Light Curtain	F3SG-4RE[]		SIL3	9.1E-9	е	4	100	98	-	It comforms to IEC 61496-1 TYPE 4. As subsystem, it conforms to IEC61508 SIL 3 and ISO13849-1 PL e. For a cascade configuration, multiply the PFHd value by the number of sensor segments cascaded. The MTTFd value does not change when in a cascade configuration.
Safety Light Curtain	F3SJ-A0245P14 to A0461P14		SIL3	1.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 461mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0533P14 to A0875P14		SIL3	2.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 533 to 875mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0983P14 to A1271P14		SIL3	3.3E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 983 to 1271mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1487P14 to A1631P14		SIL3	4.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1487 to 1631mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1784P14		SIL3	4.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight 1784mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0245N14 to A0461N14		SIL3	2.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 461mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0551N14 to A0911N14		SIL3	2.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 551 to 911mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0983N14 to A1271N14		SIL3	3.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 983 to 1271mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0245P20 to A0755P20		SIL3	1.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 755mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0785P20 to A1505P20		SIL3	2.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 770 to 1505mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1565P20 to A2255P20		SIL3	3.3E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1565 to 2255mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A2405P20 to A2495P20		SIL3	4.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 2405 to 2495mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0245N20 to A0755N20		SIL3	2.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 755mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0785N20 to A1505N20		SIL3	2.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 785 to 1505mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1655N20 to A2255N20		SIL3	3.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1655 to 2255mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A2405N20 to A2495N20		SIL3	4.3E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 2405 to 2495mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0260P25 to A0940P25		SIL3	1.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 260 to 940mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1020P25 to A1900P25		SIL3	2.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1020 to 1900mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A2060P25 to A2500P25		SIL3	3.3E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 2060 to 2500mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0260N25 to A0940N25		SIL3	2.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 260 to 940mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1020N25 to A1900N25		SIL3	2.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1020 to 1900mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A2060N25 to A2500N25		SIL3	3.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 2060 to 2500mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0245P30 to A1195P30		SIL3	1.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 1195mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1270P30 to A2495P30		SIL3	2.5E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1270 to 2495mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0245N30 to A1195N30		SIL3	2.0E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 245 to 1195mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A1270N30 to A2495N30		SIL3	2.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 1270 to 2495mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.
Safety Light Curtain	F3SJ-A0270P55 to A2470P55		SIL3	1.7E-8	е	4	-	-	-	The data is applicable for the models with a protective hight from 270 to 2470mm. It comforms to IEC 61496-1 TYPE4. As subsystem, it conforms to IEC61508 SIL3 and ISO13849-1 PLe.

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Reliability Data for Safety of Machinery

Safety Components

OMRON Corporation		11-Oct-2016		Contents of this document are subject to change without notice. E-9 means *10 ⁻⁹ .						
Products	Model	Condition / Function	SIL	PFHd	PL	Category	MTTFd(Year)	DCavg (%)	B10d	Note
Safety Light Curtain	F3SJ-A0270N55 to A2470N55		SIL3	2.0E-8	е	4	-	-	-	The data is applicable for the models with a protective It comforms to IEC 61496-1 TYPE4. As subsystem, it c
Safety Light Curtain	F3SJ-B0185P25 to B1025P25		SIL3	1.2E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SJ-B1105P25 to B2065P25		SIL3	1.8E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SJ-B0185N25 to B1025N25		SIL3	1.2E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SJ-B1105N25 to B2065N25		SIL3	1.9E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SJ-E0185P25 to E1105P25		SIL3	1.2E-8	е	4	-	-	-	The data is applicable for all models. It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SJ-E0185N25 to E1105N25		SIL3	1.2E-8	е	4	-	-	-	The data is applicable for all models. It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SR-430B0190 to 430B0990		SIL3	1.4E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Light Curtain	F3SR-430B1070 to 430B2270		SIL3	2.1E-8	е	4	-	-	-	The data is applicable for the models with a protective h It comforms to IEC 61496-1 TYPE4. As subsystem, it co
Safety Relay Unit	G9SA-300-SC		-	-	e	4	100	99	-	As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit	G9SA-301	lasterites core Orfete Ortest	-	-	e	4	100	99	-	As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit Safety Relay Unit	G9SA-321-T G9SA-321-T	Instantaneous Safety Output Release delayed safety output	-	-	e d	4	82 62	99 60	-	As a subsystem, it conforms to ISO13849-1 PLe. As a subsystem, it conforms to ISO13849-1 PLd.
Safety Relay Unit	G9SA-521-1 G9SA-501	Release delayed salety output	-	-	e	4	100	99	-	As a subsystem, it conforms to ISO13649-1 PLd. As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit	G9SA-EX301	Instantaneous Safety Output	-	-	e	4	100	99	-	As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit	G9SA-EX031-T	Release delayed safety output	-	-	d	3	65	90	-	As a subsystem, it conforms to ISO13849-1 PLd.
Safety Relay Unit	G9SA-TH301		-	-	е	4	86	99	-	It has a structure of a controller, when combined with th As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit	G9SB series (except G9SB-3010)		-	-	е	4	100	99	-	As a subsystem, it conforms to ISO13849-1 PLe.
Safety Relay Unit	G9SB-3010		-	-	d	3	100	99	-	As a subsystem, it conforms to ISO13849-1 PLd.
Safety Relay Unit	G9SE-201		SIL3	2.8E-8	e	4	100	98	-	As a subsystem, it conforms to IEC 62061 SIL3.
Safety Relay Unit	G9SE-401		SIL3	5.1E-8	е	4	53	99	-	As a subsystem, it conforms to IEC 62061 SIL3.
Safety Relay Unit	G9SE-221-T[]	Instantaneous Safety Output, Release delayed safety	SIL3	5.1E-8	е	4	53	99	-	As a subsystem, it conforms to IEC 62061 SIL3.
Safety Controller	G9SP-N10D G9SP-N10S		SIL3 SIL3	1.2E-10 9.4E-11	e	4	2500 2500	99 99	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Controller Safety Controller	G9SP-N105 G9SP-N20S		SIL3	9.4E-11 1.1E-10	e	4	2500	99	-	As a subsystem, it conforms to IEC61508 SIL3. As a subsystem, it conforms to IEC61508 SIL3.
Flexible Safety Unit	G9SX-AD		SIL3	5.7E-9	e	4	292	97	-	As a subsystem, it conforms to IEC61508 SIL3.
Flexible Safety Unit	G9SX-ADA		SIL3	5.7E-9	e	4	331	97	-	As a subsystem, it conforms to IEC61508 SIL3.
Flexible Safety Unit	G9SX-BC		SIL3	4.1E-9	e	4	489	96	-	As a subsystem, it conforms to IEC61508 SIL3.
Flexible Safety Unit	G9SX-EX		SIL3	5.8E-11	е	4	2500	99	-	As a subsystem, it conforms to IEC61508 SIL3.
Flexible Safety Unit	G9SX-GS		SIL3	9.0E-9	e	4	315	97	-	As a subsystem, it conforms to IEC61508 SIL3.
Low-speed Monitoring Unit	G9SX-LM	Integrated system of G9SX-LM and E2E proximity	-	-	d	3	50	86	-	As a subsystem integrated with the E2E (E2E-X1R5F1,
Low-speed Monitoring Unit	G9SX-LM	Without proximity sensor	SIL3	1.2E-8	d	3	100	82	-	As a subsystem, the G9SX-LM alone conforms to ISO1 detection input is 90%.
Flexible Safety Unit	G9SX-NS	Noncontact switch input (D40A or D40Z)	SIL3	4.2E-9	e	4	484	97	-	As a subsystem, it conforms to IEC61508 SIL3. The PL switch (D40Z or D40A).
Flexible Safety Unit	G9SX-NSA	Noncontact switch input (D40A or D40Z)	SIL3	5.5E-9	е	4	357	95	-	As a subsystem, it conforms to IEC61508 SIL3. The PL switch (D40Z or D40A).
Standstill Monitoring Unit	G9SX-SM		SIL3	4.8E-9	е	4	356	97	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Light Curtain	MS4800 series		SIL3	5.9E-8	е	4	-	-	-	It comforms to IEC61508 SIL3 and IEC 61496-1 TYPE4
Safety Network Controller	NE1A-SCPU01-V1		SIL3	5.1E-10	e	4	2500	99	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Network Controller NX-series Safety Control Unit	NE1A-SCPU02 NX-SID800		SIL3 SIL3	6.5E-10 4.3E-10	e e	4	2500 2500	99 98	-	As a subsystem, it conforms to IEC61508 SIL3. As a subsystem, it conforms to IEC61508 SIL3.
NX-series Safety Control Unit	NX-SIH400		SIL3	3.1E-10	e	4	2500	98	-	As a subsystem, it conforms to IEC61508 SIL3.
	NX-SL3300		SIL3	3.1E-10	e	4	2500	96	-	As a subsystem, it conforms to IEC61508 SIL3.
NX-series Safety Control Unit	NX-SL3500		SIL3	3.0E-10	e	4	2500	96	-	As a subsystem, it conforms to IEC61508 SIL3.
	NX-SOD400		SIL3	5.5E-10	е	4	2500	98	-	As a subsystem, it conforms to IEC61508 SIL3.
NX-series Safety Control Unit	NX-SOH200		SIL3	3.6E-10	e	4	2500	98	-	As a subsystem, it conforms to IEC61508 SIL3.
Safety Laser Scanner	OS32C		SIL2	8.3E-8	d	3	-	-	-	It comforms to IEC 61496-1 TYPE3. As subsystem, it co
AC Servo System 1S-series	R88D-1SN[]-ECT	STO via FSoE	SIL2	1.6E-9	d	3	100	99	-	It has a structure that conforms to IEC61800-5-2 STO f
AC Servo System 1S-series	R88D-1SN[]-ECT	STO via hardwired signal	SIL3	2.0E-11	e	3	100	86	-	It has a structure that conforms to IEC61800-5-2 STO f
AC Servo Driver G5 Series	R88D-KT/KN	STO function (STO input and EDM output)	SIL2	2.8E-8	d	3	- 100	- 07	-	It has a structure that conforms to IEC61800-5-2 STO f
Safety Edge and Edge Controller Safety Mat System	UM / MC3	Integrated system of edge sensor and controller Integrated system of mats and controller	- SIL2	- 4.8E-8	e d	3	100	97	-	When combined with a connected dedicated controller, When combined with a connected dedicated controller,
			VILL	1.52 0	u u	5				

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ve hight from 270 to 2470mm.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
/e hight from 185 to 1025mm. t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
ve hight from 1105 to 2065mm.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
ve hight from 185 to 1025mm.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
re hight from 1105 to 2065mm.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
ve hight from 190 to 990mm. t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
re hight from 1070 to 2270mm.
t conforms to IEC61508 SIL3 and ISO13849-1 PLe.
the Two-Hand Control Device that conforms to EN574 Type IIIC.
F1, -X2MF1, -X2F1, -X5MF1, -X5F1, -X10MF1), it conforms to ISO13849-1 PLd.
013849-1 PLd. The DC of the proximity sensor to be connected to the rotation
PL of the whole system is determined upon it being combined with a non-contact
PL of the whole system is determined upon it being combined with a non-contact
E4
t conforms to IEC61508 SIL2 and ISO13849-1 PLd.
O function. As a subsystem, it conforms to IEC61508 SIL2.
O function. As a subsystem, it conforms to IEC61508 SIL3.
O function. As a subsystem, it conforms to IEC61508 SIL2.
er, it conforms to both ISO 13849-1 PLe and EN1760-2.
er, it conforms to both ISO 13849-1 PLd and EN1760-1.