

**Safety parameters**
**MINOS**

Application	See figure	Type	T <sub>M</sub> [a]	EN ISO 13849-1			EN 62061 / EN 61508		
				PL	Cat	PFH [1/h]	SIL	PFD <sub>AVG</sub>	PFH [1/h]
Dual-channel emergency stop circuit, safety door monitoring with short circuit monitoring	Fig. 9 and Fig. 10	SL1D	20	d	3	1.01E-07	2	1E-03	1E-07
		SL1E	20	e	4	9.06E-10	3	4.56E-07	5.21E-12
Single-channel emergency stop circuit with earth fault monitoring	Fig. 11 and Fig.12	SL2D	20	c	1	1.14E-06	1	1E-02	1E-06
		SL2E	20	c	1	1.14E-06	1	1E-02	1E-06
Dual-channel control via OSSD outputs with integrated short circuit monitoring	Fig. 13	SL2D	20	d	3	1.01E-07	2	1E-03	1E-07
		SL2E	20	e	4	9.06E-10	3	4.56E-07	5.21E-12
Single-channel control via safe OSSD output without fault exclusion of a short circuit in the safety circuit	Fig. 14	SL2D	20	c	1	1.14E-06	1	1E-02	1E-06
		SL2E	20	c	1	1.14E-06	1	1E-02	1E-06
Single-channel control via safe OSSD output with fault exclusion of a cross circuit in the safety circuit according to EN ISO 13849-2	Fig. 14	SL2D	20	d	3	1.01E-07	2	1E-03	1E-07
		SL2D	20	e	4	9.06E-10	3	4.56E-07	5.21E-12