

ISO/TR 24119:2015-11 (E)

Safety of machinery - Evaluation of fault masking serial connection of interlocking devices associated with guards with potential free contacts

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Fault masking	5
4.1	General	5
4.2	Direct fault masking	6
4.3	Unintended reset of the fault	6
4.4	Cable fault with unintended reset	7
5	Methodology for evaluation of DC for series connected interlocking devices	8
6	Limitation of DC by effects of series connected devices	9
6.1	General	9
6.2	Simplified method for the determination of the maximum achievable DC	9
6.3	Regular method for the determination of the maximum achievable DC	9
6.3.1	Estimation of the fault masking probability	9
6.3.2	Determination of the maximum achievable DC	10
6.4	Interlocking devices with potential free contacts and other potential free contacts of devices with different functionality connected in series	12
7	Avoiding fault masking	13
Annex A (informative) Examples of the application of the evaluation methods described in 6.2 and 6.3		14
Bibliography		20