

PNOZmulti

Subsystem	Unit	Mode	EN ISO 13849-1 PL	Category	EN IEC 62061 SIL CL	PFH [1/h]	t _M [year]
PNOZ m0p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	4.90E-09	20
	expansion		PL e	Cat. 4	SIL CL 3	9.20E-09	20
Input	SC inputs	single-channel	PL d	Cat. 2	SIL CL 2	2.50E-09	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	2.90E-10	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	2.50E-10	20
	SC inputs	dual-channel pres- sure sensitive mat	PL d	Cat. 3	SIL CL 2	1.81E-09	20
Output	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	7.00E-09	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.60E-10	20
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
Bus interface	cascading inputs		PL e	Cat. 4	SIL CL 3	3.10E-10	20
	cascading outputs		PL e	Cat. 4	SIL CL 3	4.91E-10	20
PNOZ m1p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	4.90E-09	20
	expansion		PL e	Cat. 4	SIL CL 3	9.20E-09	20
Input	SC inputs	single-channel	PL d	Cat. 2	SIL CL 2	2.50E-09	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	2.90E-10	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	2.50E-10	20
	SC inputs	dual-channel pres- sure sensitive mat	PL d	Cat. 3	SIL CL 2	1.81E-09	20
Output	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	7.00E-09	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.60E-10	20
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
Bus interface	cascading inputs		PL e	Cat. 4	SIL CL 3	3.10E-10	20
	cascading outputs		PL e	Cat. 4	SIL CL 3	4.91E-10	20
PNOZ m2p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	4.90E-09	20
	expansion		PL e	Cat. 4	SIL CL 3	9.20E-09	20
Input	SC inputs	single-channel	PL d	Cat. 2	SIL CL 2	2.50E-09	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	2.90E-10	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	2.50E-10	20
	SC inputs	dual-channel pres- sure sensitive mat	PL d	Cat. 3	SIL CL 2	1.81E-09	20
Output	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	7.00E-09	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.60E-10	20
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
Bus interface	cascading inputs		PL e	Cat. 4	SIL CL 3	3.10E-10	20
	cascading outputs		PL e	Cat. 4	SIL CL 3	4.91E-10	20

* EN 954-1: Cat. 3

** EN 954-1: Cat. 2

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Subsystem	Unit	Mode	EN ISO 13849-1 PL	Category	EN IEC 62061 SIL CL	PFH [1/h]	t _M [year]
PNOZ m3p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	4.90E-09	20
	expansion		PL e	Cat. 4	SIL CL 3	9.20E-09	20
Input	SC inputs	single-channel	PL d	Cat. 2	SIL CL 2	2.50E-09	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	2.90E-10	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	2.50E-10	20
	SC inputs	dual-channel pres- sure sensitive mat	PL d	Cat. 3	SIL CL 2	1.81E-09	20
Output	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	7.00E-09	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.60E-10	20
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
Bus interface	cascading inputs		PL e	Cat. 4	SIL CL 3	3.10E-10	20
	cascading outputs		PL e	Cat. 4	SIL CL 3	4.91E-10	20
PNOZ mm0p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	1.54E-09	20
Input	SC inputs	single-channel	PL d	Cat. 2*	SIL CL 2	3.95E-09	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	3.95E-10	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	4.61E-10	20
Output	SC outputs	single-channel with advanced fault detection	PL e	Cat. 4	SIL CL 3	7.65E-10	20
	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	8.90E-10	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	7.86E-10	20
PNOZ mm0.1p, PNOZ mm0.2p							
Logic	CPU		PL e	Cat. 4	SIL CL 3	1.54E-09	20
	Expansion right		PL e	Cat. 4	SIL CL 3	2.13E-10	20
	Expansion left		PL e	Cat. 4	SIL CL 3	2.38E-10	20
Input	SC inputs	single-channel	PL d	Cat. 2*	SIL CL 2	3.95E-09	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	3.95E-10	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	4.61E-10	20
Output	SC outputs	single-channel with advanced fault detection	PL e	Cat. 4	SIL CL 3	7.65E-10	20
	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	8.90E-10	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	7.86E-10	20
PNOZ ma1p							
	analogue inputs	single-channel	PL e	Cat. 4	SIL CL 3	8.71E-09	20
	analogue inputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.71E-09	20
PNOZ mi1p							
	SC inputs	single-channel	PL d	Cat. 2	SIL CL 2	2.50E-09	20
	SC inputs	dual-channel	PL e	Cat. 4	SIL CL 3	2.90E-10	20
	SC inputs	light barrier	PL e	Cat. 4	SIL CL 3	2.50E-10	20
	SC inputs	dual-channel pres- sure sensitive mat	PL d	Cat. 3	SIL CL 2	1.81E-09	20
PNOZ ml1p							
			PL e	Cat. 4	SIL CL 3	8.82E-09	20
PNOZ mo1p							
	SC outputs	single-channel	PL d	Cat. 2*	SIL CL 2	7.00E-09	20
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	8.60E-10	20
PNOZ mo2p							
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
PNOZ mo3p							
	SC outputs	dual-channel	PL e	Cat. 4	SIL CL 3	1.74E-09	20

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PNOZ mo4p							
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
PNOZ mo5p							
	relay outputs	single-channel	PL c	Cat. 1**	-	2.90E-08	20
	relay outputs	dual-channel	PL e	Cat. 4	SIL CL 3	3.00E-10	20
PNOZ ms1p							
		initiator	PL e	Cat. 3	SIL CL 3	3.68E-09	20
		incremental encoder	PL e	Cat. 3	SIL CL 3	4.52E-09	20
PNOZ ms2p							
		initiator	PL e	Cat. 3	SIL CL 3	3.68E-09	20
		incremental encoder	PL e	Cat. 3	SIL CL 3	6.73E-09	20
PNOZ ms3p							
		incremental encoder	PL e	Cat. 3	SIL CL 3	6.36E-09	20
PNOZ ms4p							
		incremental encoder	PL e	Cat. 3	SIL CL 3	6.36E-09	20

* EN 954-1: Cat. 3

** EN 954-1: Cat. 2