
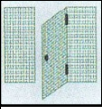
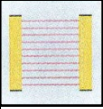
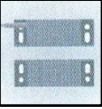
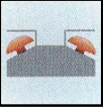
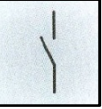
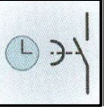
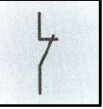

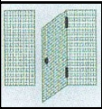
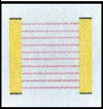
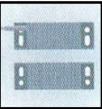
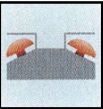
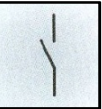
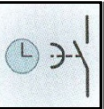
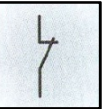


**PSR safety relays**

Type	Application					Output contacts			Safety approvals			
									CAT/EN 954-1	PL/ISO 13849-1	SILCL/IEC 62061	SIL/IEC 61508
PSR-ESM4	x	x				2		1	4	e	3	
PSR-ESM4-B	x	x				3		1	4	e	3	
PSR-ESA4	x	x				2		1	4	e	3	
PSR-ESA4-B	x	x				3		1	4	e	3	
PSR-ESA2-B	x	x				4		1	2 1)	d 1)	3	
PSR-ESAM4/3x1	x	x				3		1	4	e	3	3
PSR-ESP4	x	x				2		1	2 1)	d 1)	3	3
PSR-ESAM4	x	x	x 5)			8		1	4	e	3	
PSR-ESL4	x	x	x			3		1	4	e	3	
PSR-ESD-30	x	x	x			2	2		4	e	3	
PSR-ESD-300	x	x	x 5)			3	2	1	4 4)	e 4)	3 4)	
PSR-ESD-T	x	x	x 5)			3	2	1	4 4)	e 4)	3 4)	
PSR-THC4		x			x	2		1	4 2)	e	3	
PSR-SDC4	x	x	x	x		2		1 3)	4	e	3	
PSR-FSP	Emergency stop coupling relay for failsafe control systems in the process industry					1		1				3
PSR-URM4	Contact extensions					5		2	4	e	3	3
PSR-URM4-B	Contact extensions					5		2	4	e	3	3

**Modular safety relay system with PSR-TBUS connection**

Type	Application					Output contacts			Safety approvals			
									CAT/EN 954-1	PL/ISO 13849-1	SILCL/IEC 62061	SIL/IEC 61508
PSR-SDC4	x	x	x	x		2		1 3)	4	e	3	
PSR-URM4/B	Contact extensions					4		2	4	e	3	
PSR-URD3/3	Contact extensions						4	2(delayed)	3	d	2	
PSR-URD3/30	Contact extensions						4	2(delayed)	3	d	2	
PSR-URD3/T2	Contact extensions						4	2(delayed)	3	d	2	

1) Cat. 4/PL e with additional measures.

2) Type IIIC as per EN574.


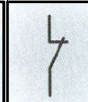
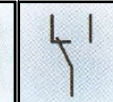
3) Semiconductor output.

4) Undelayed contacts: Cat. 4, PL e, SILCL 3, drop-out delay contacts: Cat. 3, PL d, SILCL 2.

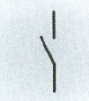
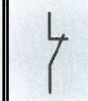
5) Suitable light grid types on request.

**All PSR products specified in this overview are equipped with EN 50205-compliant positively driven contacts.**

### Positively driven coupling relays

Type	Application	Output contacts		
				
PSR-URM	Coupling relays	5	2	
PSR-URM/3X1	Coupling relays	3	3	
PSR-URM/5X1	Coupling relays	5	1	
PSR-URM/2X21	Coupling relays			2
PSR-URM/4X1	Coupling relays	4	2	

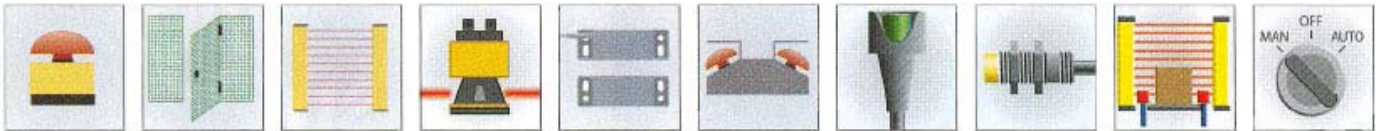
### Downtime and speed monitors

Type	Application		Output contacts		Safety approvals			
	$n=0$	$n>n_{max}$			CAT/EN 954-1	PL/ISO 13849-1	SILCL/IEC 62061	SIL/IEC 61508
PSR-SSM	x		2	2	4			3
PSR-RSM4	x	x	4		4			3

### PSR-TRISAFE configurable safety module

The configurable PSR-TRISAFE safety module can be used to implement all commonly used safety functions easily and flexibly.

Typical applications are emergency stop and safety door monitoring, evaluation of magnetic switches, safety sensors, laser scanners and optical data links (with and without muting) as well as safe mode selection, enable switches and two-hand control devices. Other applications are available on request.



Type	Application	Inputs	Outputs				Safety approvals			
			Safe controller Outputs	Ground switching outputs	Clack outputs	Alarm outputs	CAT/EN 954-1	PL/ISO 13849-1	SILCL/IEC 62061	SIL/IEC 61508
PSR-TRISAFE-S	Safety module	20	4	2	2	4	4	e	3	3