

I/O System – 750 and 753 Series, Functional Safety

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		Standard	Pluggable	
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Supply Modules Ex i 	The intrinsically safe I/O module with inputs for functional safety (750-663/000-003) must only be operated using an Ex i 24 VDC power supply (e.g., 750-606, 750-625/000-001)! General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 manuals!			
	Supply Module; 24 VDC; Diagnostics; Intrinsically safe	750-606		310
	Power Supply; 24 VDC; Intrinsically safe	750-625/000-001		310
Filter Modules 	The mixed operation of safe and conventional I/O modules streamlines system configuration. For increased electromagnetic immunity (EMC standard), WAGO offers compact power supply filter modules (see Section 4.10). Specific power supply features must be considered, which are described in the corresponding manuals.			
	Field Supply Filter (Surge); 24 VDC; Higher isolation	750-624/020-000		334
	Supply Filter; 24 VDC; Higher isolation	750-626/020-000		336

Classification of Binary 24 V Interfaces with Testing in the Field of Functional Safety per ZVEI Position Paper CB24I

WAGO – Functional Safety		Identifying Key per ZVEI Position Paper CB24I											
Description	Item No.	Source/Sink	Interface type	Additional measures "M"	Measures			Sink/Source	Suitable interface type	Suitable interface type	Suitable interface type	Suitable interface type	
					Parameterize filter time, short circuit test	Parameterize/switch off test pulse duration	Protected wiring						
Inputs													
Fail-Safe Digital Input, 8 Channels; 24 VDC; PROFIsafe	750-660/000-001	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
Fail-Safe Digital Input, 4 Channels; 24 VDC; PROFIsafe V 2.0 iPar	750-661/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
Fail-Safe Digital Input, 4 Channels; 24 VDC; PROFIsafe V 2.0 iPar	753-661/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
Fail-Safe Digital Input, 8 Channels; 24 VDC; PROFIsafe V 2.0 iPar	750-662/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
Fail-Safe Digital Input, 8 Channels; 24 VDC; PROFIsafe V 2.0 iPar	753-662/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
Inputs/Outputs													
Fail-Safe Digital Input/Output, 4/4 Channels; 24 VDC; 0.5 A; PROFIsafe	750-665/000-001	Sink	A	M				Source	A	-	-	-	
		Source	C0	M				Sink	C0	-	-	-	
Fail-Safe Digital Input/Output, 4/2 Channels; 24 VDC; 10 A; PROFIsafe V 2.0 iPar	750-666/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
		Source	C0	M		x		Sink	C0	C1	C2	C3	
		Source	D0	M		x		Sink	D0	D1	D2	D3	
Fail-Safe Digital Input/Output, 4/2 Channels; 24 VDC; 10 A; PROFIsafe V 2.0 iPar	753-666/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
		Source	C0	M		x		Sink	C0	C1	C2	C3	
		Source	D0	M		x		Sink	D0	D1	D2	D3	
Fail-Safe Digital Input/Output, 4/4 Channels; 24 VDC; 2 A; PROFIsafe V 2.0 iPar	750-667/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
		Source	C0	M		x		Sink	C0	C1	C2	C3	
		Source	D0	M		x		Sink	D0	D1	D2	D3	
Fail-Safe Digital Input/Output, 4/4 Channels; 24 VDC; 2 A; PROFIsafe V 2.0 iPar	753-667/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
		Source	C0	M		x		Sink	C0	C1	C2	C3	
		Source	D0	M		x		Sink	D0	D1	D2	D3	
Fail-Safe Digital Input/Relay Output, 4/4 Channels; 48 VAC/60 VDC; 6 A; PROFIsafe V 2.0 iPar	750-669/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	
		Source	A	-				Sink	A	-	-	-	
		Source	C0	M			x	Sink	C0	C1	C2	C3	
Intrinsically Safe Input													
Intrinsically Safe 4-Channel Digital Input; 24 VDC; PROFIsafe V 2.0 iPar	750-663/000-003	Sink	A	-				Source	A	-	-	-	
		Sink	C0	M	x			Source	C0	C1	C2	C3	