Combinations of Universal/High-density Power Hubs and R2-SP* or F2-SP* Segment Protectors for Ex ic Rated Outputs

This table describes the compatibility of FieldConnex® Universal/High-density Power Hub solutions in combination with R2-SP* or F2-SP* Segment Protectors to generate Ex ic rated intrinsically safe outputs at the Segment Protector. In most cases the Power Hub limits the safe voltage where the Segment Protector limits the safe current.

Ex ic ratings of device connections at the spur of the Segment Protector						Power Module	HD2-FBCL-1.500	HD2-FBPS-1.500	HD2-FBPS-1.25.360	HD2-FBPS-1.23.500	HD2-FBPS-1.17.500
						Isolated	No	Yes	Yes	Yes	Yes
						Output	30 V@ 500 mA	28 V@ 500 mA	25 V@ 360 mA	21 V@ 500 mA	15 V@ 500 mA
						Safe voltage, Uo		30.5 V	32 V	24 V	17,5 V
Motherboard	Power Hub Type	Red.	Seg.	Diagnostics	Bus	DCS solution					
MB-FB-1R	Universal	Yes	1	Basic, built-in	FF	Emerson/Generic	No	Yes	Yes *)	Yes	Yes
MB-FB-2R	Universal	Yes	2	Advanced/Basic	FF	Emerson/Gen.	No	Yes	Yes *)	Yes	Yes
MB-FB-4R	Universal	Yes	4	Advanced/Basic	FF	Emerson/Gen.	No	Yes	Yes *)	Yes	Yes
MB-FB-4R.GEN	Universal	Yes	4	Advanced/Basic	PA	Generic/Adaptable	No	Yes	Yes *)	Yes	Yes
MB-FB-4.GEN	Universal	No	4	Advanced/Basic	PA	Generic/Adaptable	No	Yes	Yes *)	Yes	Yes
MB-FB-4	Universal	No	4	Advanced/Basic	FF	Emerson/Generic	No	Yes	Yes *)	Yes	Yes
MB-FB-4.YO	Universal	No	4	Advanced/Basic	FF	Yokogawa	No	Yes	Yes *)	Yes	Yes
MB-FB-4R.YO	Universal	Yes	4	Advanced/Basic	FF	Yokogawa	No	Yes	Yes *)	Yes	Yes
MB-FB-4R.HO.SC	Universal	Yes	4	Advanced/Basic	FF	Honeywell	No	Yes *)	Yes *)	Yes *)	Yes *)
FBTA-228-BPFB-8	Universal	No	8	No	FF	Invensys	No	Yes *)	Yes *)	Yes *)	Yes *)
FBTA-228-BPFB-R-4R	Universal	Yes	4	No	FF	Invensys	No	Yes *)	Yes *)	Yes *)	Yes *)
MBHD-FB1-4R	High-density	Yes	4	Advanced/Basic	FF	Emerson/Generic	NC	Yes	Yes *)	Yes	Yes
MBHD-FB1-4R.YO	High-density	Yes	4	Advanced	FF	Yokogawa	NC	Yes	Yes *)	Yes	Yes

Legend:
Red.: Redundancy yes/no
Seg.: Number of segments
NC: power module not compatible with motherboard

Notes:
*) The Segment Protector alone provides a safe voltage limitation of 32 V for this power module and motherboard selection.

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