

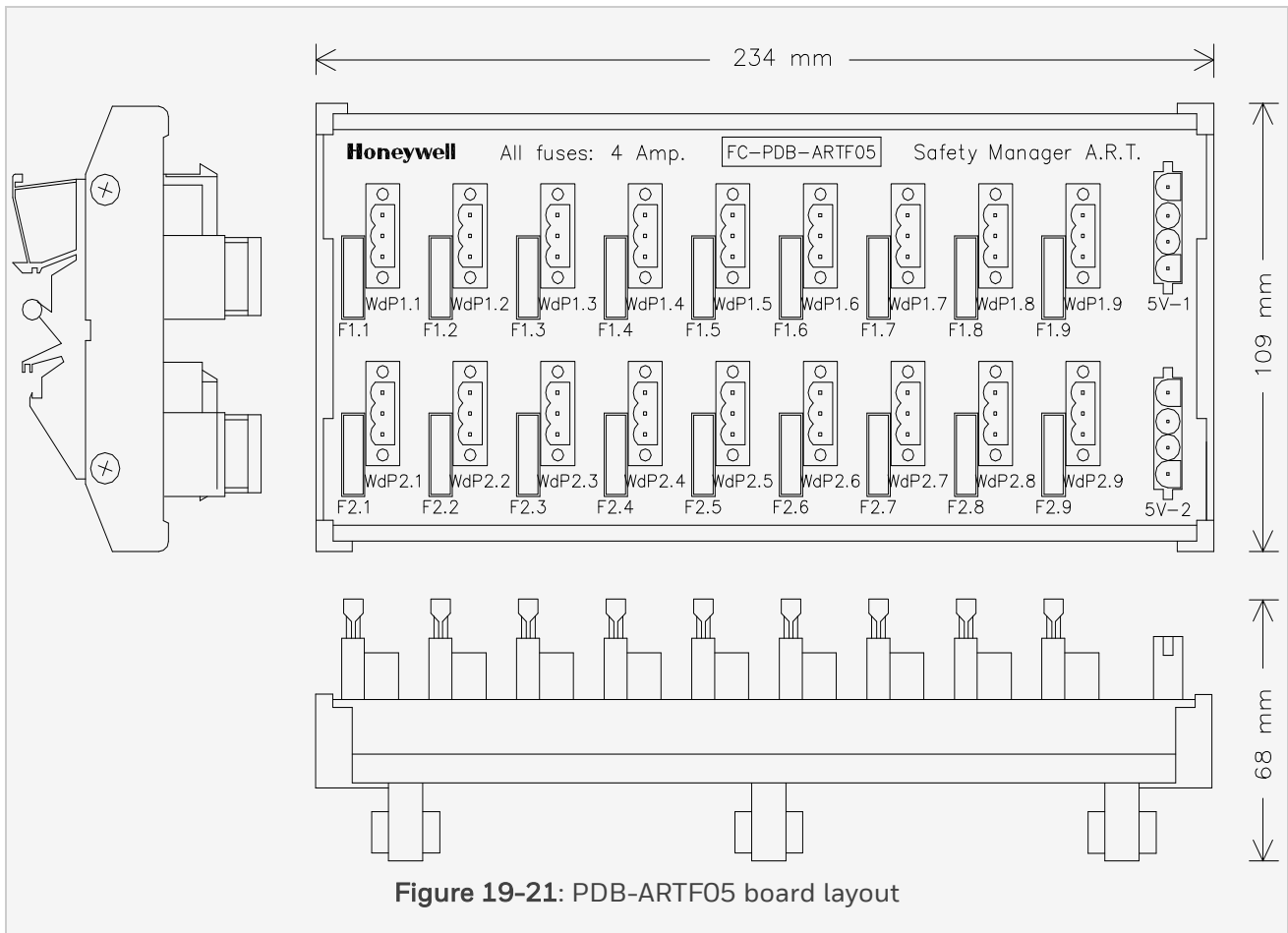
19.5 PDB-ARTF05

19.5.1 Fused Power Distribution Board for IO cabinet - 5 V DC, Watchdog (Safety Manager A.R.T.)

The PDB-ARTF05 fused power distribution board for an IO cabinet is a board that enables the distribution of the watchdog signals and fused 5V of the controller cabinet to an IO cabinet.

Fuse Fx.y transfers the incoming 5V of CPx to connector WdPx.y (e.g. fuse F2.9 transfers the incoming 5V of CP2 to connector WdP2.9).

The below figure shows the PDB-ARTF05 with its 2 x 10 connectors and 2 x 9 fuses.



The PDB-ARTF05 for the Controller cabinet IO-racks is placed on top of the controller chassis.

The PDB-ARTF05 for IO-racks in the extension IO cabinet is placed in the extension IO cabinet.

19 5 Volt and watchdog distribution

19.5 PDB-ARTF05

Two Power Distribution Cables (type PDC-CPX05) are used to connect the Controller chassis with the PDB-ARTF05 in the controller cabinet.

Two Power Distribution Cables (type PDC-IOX05-1) are used to connect the Controller chassis with the PDB-ARTF05 in an extension IO-cabinet.

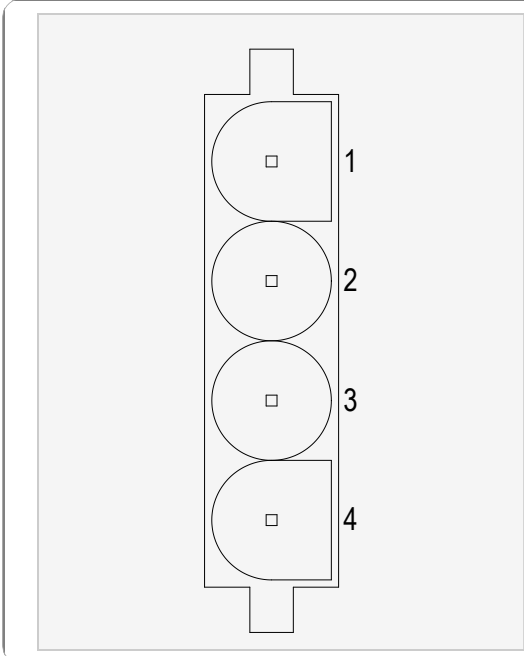
- Connect 5V-1 of the Controller chassis with 5V-1 of the PDB-ARTF05.
- Connect 5V-2 of the Controller chassis with 5V-2 of the PDB-ARTF05.

Each IO-rack uses a pair of PDC-ART05 cables to connect with the PDB-ARTF05:

- Connect WdP1.x of the PDB-ARTF05 with WdP1 of the IO-rack.
- Connect WdP2.x of the PDB-ARTF05 with WdP2 of the IO-rack.

19.5.2 Pin allocation

The top view and pin allocation of the 5V-1 and 5V-2 connectors are:

		5V-1	5V-2
	1	ground	ground
	2	WD of CP1	WD of CP2
	3	ground	ground
	4	5V of CP1	5V of CP2

The top view and pin allocation of the WdPx connectors are:

		WdP1.x	WdP2.x
	3	WD of CP1	WD of CP2
	2	ground	ground
	1	5V of CP1	5V of CP2

19 5 Volt and watchdog distribution

19.5 PDB-ARTF05

19.5.3 Technical data

General	Type number:	FC-PDB-ARTF05
	Approvals:	CE: UL,TUV,CSA
Power	• 5V-1	max. 16A
	• 5V-2:	max. 16A
Fuse	Fuse rating:	4 A
	Fuse dimensions:	Blade 5×19 mm
	Voltage rating AC:	-
	Voltage rating DC:	32 V
	Manufacturer:	Littelfuse
	Manufacturer PN:	0287004.PXS
	Maximum y output current per fuse:	2.8 A
Connectors	5V-x:	4 pos, action pin,header
	WdPx.y:	3 pole, pin header
Physical	Module dimensions:	234 x 109 x 68 mm (L × W × H) 9.21 x 4.29 x 2.68 in (L × W × H)
	DIN EN rails:	TS32 / TS35 × 7.5
	Used rail length:	235 mm (9.25 in)