

FUNCTIONAL SPECIFICATIONS - TERMINATION ASSEMBLIES

FBM Type	Input Signal	TA Part No. ^(a)		Termination Type ^(b)	TA Cable Type ^(c)	TA Certification Type ^(d)
		PVC	PA			
FBM207	16 channel, voltage monitor 240 V ac with external excitation Logic Zero 0 to 40 V ac Logic One 160 to 280 V ac Input Current for Logic One; 1.6 mA maximum Group isolation provided by termination assembly	P0916PM P0916PN		C RL	4	1
FBM207b	16 channel, contact sense 24 V dc contact wetting from FBM207b FBM207b channel isolation	P0916JS P0916PP	P0916XT	C RL	4	1, 2
FBM207c	16 channel, contact sense 48 V dc contact wetting from FBM207c FBM207c channel isolation	P0917MF P0917MH	P0917MG P0917MJ	C RL	4	1, 2

(a) PVC (polyvinyl chloride) termination assemblies rated from -20 to +50°C (-4 to 122°F); PA (polyamide) termination assemblies rated from -20 to +70°C (-4 to +158°F).

(b) C= TA with compression terminals, RL = TA with ring lug terminals.

(c) See to Table 2 for cable part numbers and specifications.

(d) See to Table 1 Termination Assembly certification definitions.

Note: To avoid false tripping of ac type inputs, care should be taken in routing long wiring or bundled runs to minimize coupling from adjacent signals and/or noise from heavy equipment. When possible, dc excitation of input circuits is recommended for runs greater than 305 m (1000 ft).

Table 1. Certifications for Termination Assemblies

Type	Certification
Type 1	TAs are UL/UL-C listed as suitable for use in Class I; Groups A-D; Division 2 temperature code T4 hazardous locations. They are CENELEC (DEMKO) certified EEx nA IIC T4 for use in Zone 2 potentially explosive atmospheres.
Type 2	TAs are UL/UL-C listed as associated apparatus for supplying non-incendive field circuits Class I; Groups A-D; Division 2 hazardous locations when connected to specified 200 Series FBMs and field circuits meeting entity parameter constraints specified in <i>Standard and Compact 200 Series Subsystem User's Guide</i> (B0400FA). They are also CENELEC (DEMKO) certified as associated apparatus for supplying field circuits for Group IIC, Zone 2 potentially explosive atmospheres. Field circuits are also Class 2 limited energy (60 V dc, 30 V ac, 100 VA or less) if customer-supplied equipment meets Class 2.

Table 2. P/PVC and Hypalon/XLPE Termination Cable Types and Part Numbers

Length m (ft)	Type 4 P/PVC Cable, 26 AWG ^(a)	Type 4 LSZH ^(b)	Type 4 Hypalon/XLPE Cable 26 AWG ^(c)
0.5 (1.6)	P0916FG	P0928BA	P0916WD
1.0 (3.2)	P0916FH	P0928BB	P0916WE
2.0 (6.6)	P0931RQ	P0928BC	P0931RU
3.0 (9.8)	P0916FJ	P0928BD	P0916WF
5.0 (16.4)	P0916FK	P0928BE	P0916WG
10.0 (32.8)	P0916FL	P0928BF	P0916WH
15.0 (49.2)	P0916FM	P0928BG	P0916WJ
20.0 (65.6)	P0916FN	P0928BH	P0916WK
25.0 (82.0)	P0916FP	P0928BJ	P0916WL
30.0 (98.4)	P0916FQ	P0928BK	P0916WM

(a) P/PVC cable assemblies polyurethane outer jacket and semi-rigid PVC primary conductor insulation temperature range: -20 to +70°C (-4 to 158°F)

(b) Low smoke zero halogen or low smoke free of halogen (LSZH) is a material classification used for cable jacketing. LSZH is composed of thermoplastic or thermoset compounds that emit limited smoke and no halogen when exposed to high sources of heat. Temperature range: -40 to +105°C (-40 to +221°F)

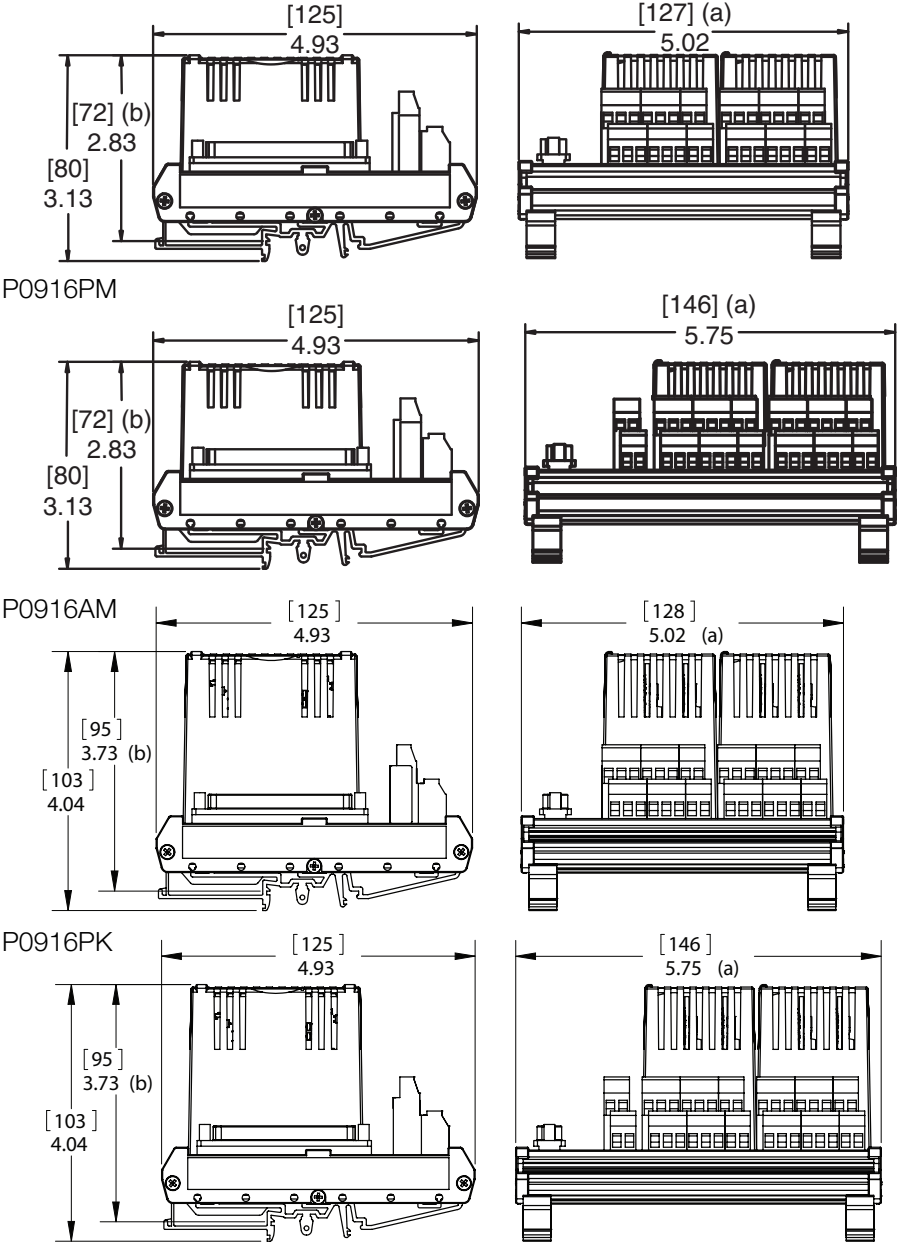
(c) H/XLPE cable assemblies Hypalon outer jacket and XLPE (cross-linked polyethylene) primary conductor insulation temperature range: -20 to +70°C (-4 to +158°F). Hypalon cables are no longer available for purchase.

DIMENSIONS-NOMINAL

[mm]
in

Compression Termination Assemblies

P0916AL, P0916XN1, P0916JS, P0916XT1, P0916XP1, P0916PH, P0917MF, P0917MG¹



(a) Overall width – for determining DIN rail loading.
(b) Height above DIN rail (add to DIN rail height for total).

¹Dimensions shown are for the PVC versions. All dimensions for this polyamide termination assembly are smaller.