

PHYSICAL SPECIFICATIONS

Mounting

MODULE

The FBM224 mounts on a Modular Baseplate. The Modular Baseplate can be mounted horizontally or vertically on a DIN rail, or mounted horizontally in a 19-inch rack using a mounting kit. Refer to PSS 21H-2W6 B4 for details.

TERMINATION ASSEMBLY

The TA accommodates multiple DIN styles including 32 mm (1.26) and 35 mm (1.38 in) rails.

Mass

MODULE

284 g (10 oz) approximate

TERMINATION ASSEMBLIES

Compression

216 mm (8.51 in) – 320 g (0.70 lb, approximate)

Ring Lug

250 mm (9.85 in) – 454 g (1.0 lb, approximate)

Part Numbers

MODULE

P0926GG

TERMINATION ASSEMBLIES

P0926GH - Compression Screw

P0926PA - Ring Lug

Dimensions

FBM224 MODULE

HEIGHT

102 mm (4 in)

114 mm (4.5 in) including mounting lugs

WIDTH

45 mm (1.75)

DEPTH

104 mm (4.11 in)

TERMINATION ASSEMBLIES

See page 11 and page 12

Indicators (mounted on front of module)

OPERATIONAL STATUS

1 red and 1 green light-emitting diode (LED)

CHANNEL COMMUNICATION ACTIVITY

8 Amber LEDs: one transmit and one receive per port.

Input/Output Cable Lengths

MAXIMUM CABLE LENGTH, TA RS-232

CONNECTION (DB-25 CABLE) TO MODEM/CONVERTER/DEVICE

15 m (50 ft) for custom cables per EIA Standard RS-232. With Foxboro standard cables 13 m (40 ft), refer to *Modbus Communication Interface Module (FBM224) User's Guide (B0400FK)*

MAXIMUM CABLE LENGTH, RS-422 AND RS-485

1200 m (3960 ft)

Termination Cables

CABLE LENGTHS

Up to 5 m (15 ft)

CABLE MATERIALS

Hypalon®/XLP.

TERMINATION CABLE TYPE

Type 5 - Refer to Table 2 on page 10

CABLE CONNECTION

37-pin male D-subminiature, TA and baseplate

Construction - Termination Assembly

MATERIAL

Polyamide (PA), compression and ring lug

FAMILY GROUP COLOR

Dark blue - discrete

TERMINAL BLOCKS FOR RS-422/RS-485

3 tiers, 8 positions

Cable Connectors for RS-232

DB-25, four connectors

PHYSICAL SPECIFICATIONS (CONTINUED)

Field Termination Connections for RS422/RS-485

COMPRESSION - ACCEPTED WIRING SIZES

Solid/Stranded/AWG

0.2 to 4 mm²/0.2 to 2.5 mm²/24 to 12 AWG

Stranded with Ferrules

0.2 to 2.5 mm² with or without plastic collar

RING-LUG - ACCEPTED WIRING SIZES

#6 size connectors (0.375 in (9.5 mm))

0.5 to 4 mm²/22 AWG to 12 AWG

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

Length m (ft)	Type 5 LSZH ^(a)	Type 5 Hypalon/XLPE ^(b)
1.0 (3.2)	P0928AW	P0926GJ
2.0 (6.6)	P0928AX	P0931RV
3.0 (9.8)	P0928AY	P0926GQ
5.0 (16.4)	P0928AZ	P0926GR

(a) 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)

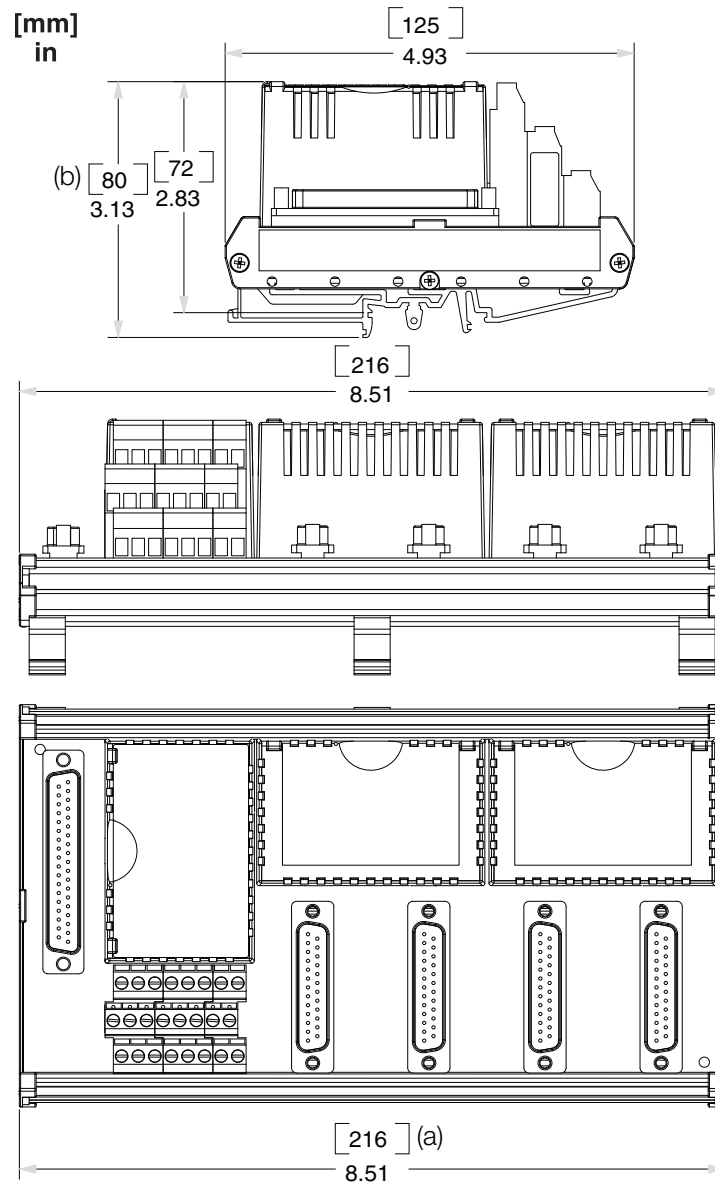
(b) H/XLPE is Hypalon outer jacket and XLPE (cross-linked polyethylene) primary conductor insulation. Temperature range: -40 to +90°C (-40 to +194°F). Hypalon cables are no longer available for purchase.

RELATED PRODUCT SPECIFICATION SHEETS

PSS Number	Description
PSS 21H-2W1 B3	DIN Rail Mounted FBM Subsystem Overview
PSS 21H-2W2 B3	DIN Rail Mounted FBM Equipment, Agency Certifications
PSS 21H-2W6 B4	DIN Rail Mounted Modular Baseplates

DIMENSIONS - NOMINAL

Compression Screw Termination Assembly (P0926GH)



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