

MTL BPM/BPS BACKPLANES SPECIFICATION AND DIMENSIONS

SPECIFICATION

Power requirements, Vs

21V dc to 35V dc through plug-in connectors

Safe-area connections

BPM: Elco 8016 56-pin male connectors – one connector for each group of 8 modules

BPS: 2.5mm² screw-clamp terminals – 6 positions per module

Power sense

BPM: Through Elco 8016 connectors

BPS: Through separate plug-in crimp connector

Weight (without modules or accessories)

BPS04: 96g

BPM08: 159g

BPS08: 225g

BPM16: 286g

BPS16: 419g

BPM24: 382g

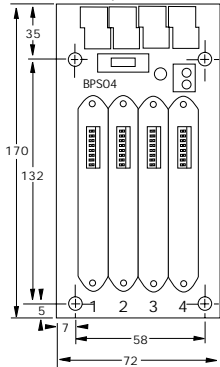
BPS24: 592g

BACKPLANES – FEATURES

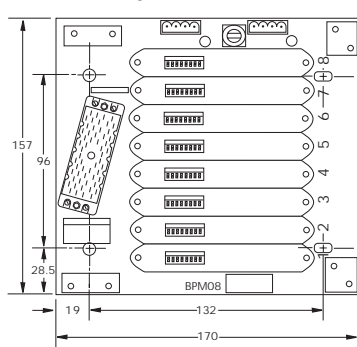
Model no.	No. of modules	Safe-area connections	Surface	Mounting DIN-rail (T or G)	19-inch rack	Accessories	
						Earth-rail kit	Tagging strip kit
BPM08	8	Multiway	Yes	Yes	No	Yes	Yes
BPM16	16	Multiway	Yes	Yes	No	Yes	Yes
BPM24	24	Multiway	Yes	No	Yes	No	Yes
BPS04	4	Screw-clamp	Yes	Yes	No	No	No
BPS08	8	Screw-clamp	Yes	Yes	No	Yes	Yes
BPS16	16	Screw-clamp	Yes	Yes	No	Yes	Yes
BPS24	24	Screw-clamp	Yes	No	Yes	No	Yes

DIMENSIONS (mm)

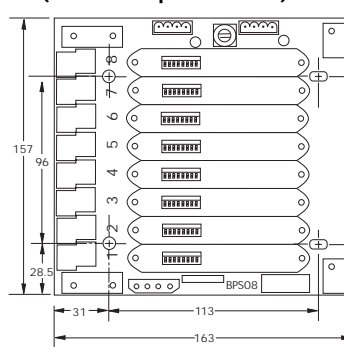
BPS04 4-way backplane (screw-clamp connectors)



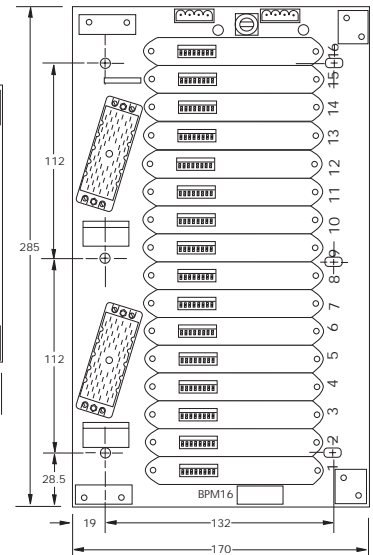
BPM08 8-way backplane (multiway connectors)



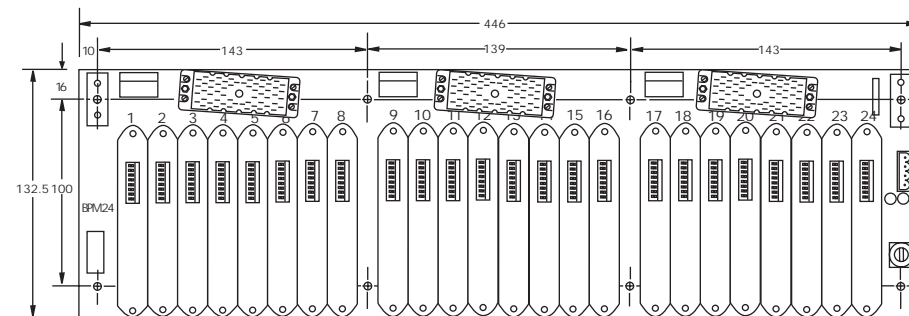
BPS08 8-way backplane (screw-clamp connectors)



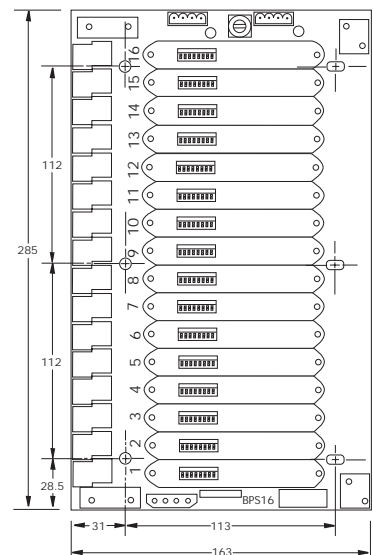
BPM16 16-way backplane (multiway connectors)



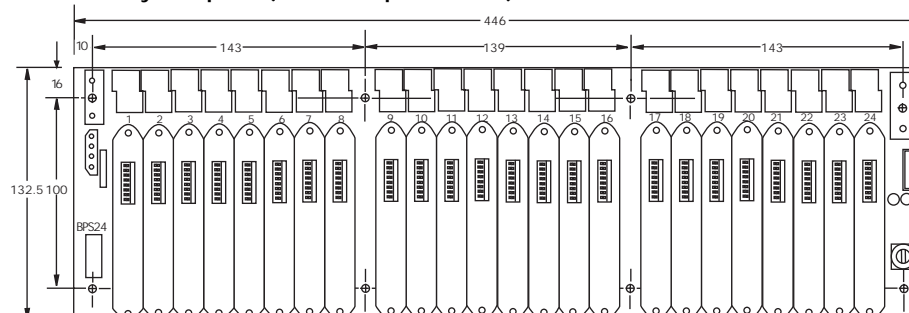
BPM24 24-way backplane (multiway connectors)



BPS16 16-way backplane (screw-clamp connectors)



BPS24 24-way backplane (screw-clamp connectors)



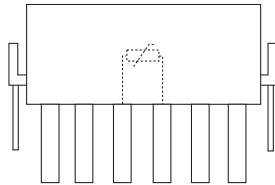
MTL4000 SERIES ACCESSORIES

MTL4000 MODULE ACCESSORIES

- CCH01** Hazardous-area crimp connector
SCC01 Hazardous-area screw-clamp connector



- SCJ01** Hazardous-area screw-clamp connector with integral CJC sensor



- CRC01** Crimps 0.5-2.0mm² (20-14 AWG), pack of 100
CRC02 Crimps 0.2-0.8mm² (24-18 AWG), pack of 100
CRT01 Crimp tool for 1.5-6.0mm² (15-9 AWG) wire
CRT02 Crimp tool for 0.1-1.6mm² (27-15 AWG) wire
CRR01 Crimp removal tool for CRC01, CRC02 or power sense crimps

MTL4000 BACKPLANE ACCESSORIES

- ERK08** Earth rail kit for BPM/BPS08 backplanes
ERK16 Earth rail kit for BPM/BPS16 backplanes
TSK08 Tagging strip kit for BPM/BPS08 backplanes
TSK16 Tagging strip kit for BPM/BPS16 backplanes
TSK24 Tagging strip kit for BPM/BPS24 backplanes
SMS01 Backplane surface mounting kit, pack of 40
DMK01 Backplane DIN-rail mounting kit, G- or T-section, pack of 40

MTL BX08/16/32 ENCLOSURES

SPECIFICATIONS

- BX08:** for 1 x BPM08 or BPS08 backplane
BX16: for 1 x BPM16 or BPS16 backplane
BX32: for 2 x BPM16 or BPS16 backplanes

Location

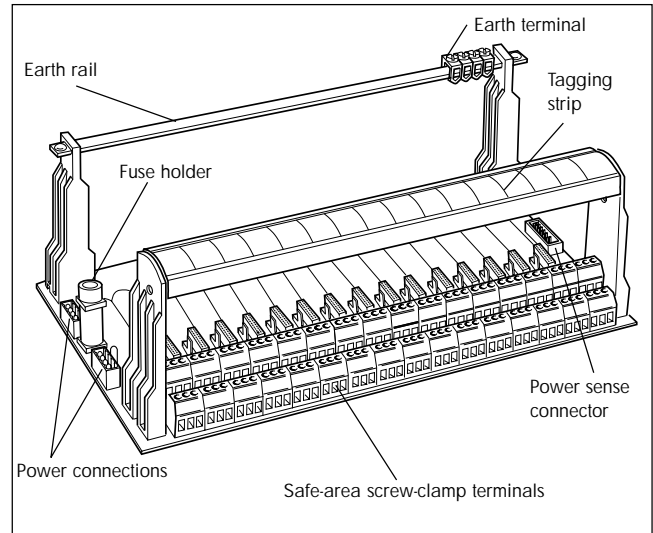
Safe area

Protection

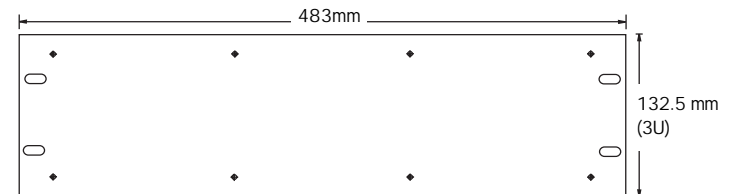
Dust-tight and water-jet proof to IEC529:IP65

Ambient temperature limits

-20 to +60°C, depending upon modules fitted
 (see instruction manual INM4000 for details)



- BMK08** Mounting kit – surface/DIN-rail accessories for one 4- or 8-way backplane
BMK16 Mounting kit – surface/DIN-rail accessories for one 16-way backplane
HMP24 Horizontal mounting plate and screws for 19-inch rack, 24-way backplane only,
ELC56 Elco 8016, 56-way cable plug kit
FUS08 Fuse kit, BPM/BPS08 backplanes, pack of 10
FUS16 Fuse kit, BPM/BPS16 backplanes, pack of 10
FUS24 Fuse kit, BPM/BPS24 backplanes, pack of 10
MPL01 Module position labels (blank), pack of 50
HMP24 Horizontal mounting plate for 19-inch rack, 24-way backplane only, (includes mounting screws)



Maximum height from backplane to top of tagging strip: 92mm

Construction

- Base: GRP (glass-fibre reinforced polyester)
 Lid: transparent high-strength polycarbonate

Finish

- Base: light grey
 Lid: transparent

Lid fixing

Captive fixing screws

Gland fixing

Side mounted gland plate, detachable for drilling by user

Mounting

By exterior surface-fixing lugs (zinc-passivated steel)

Internal cable trunking

Provided on all enclosures

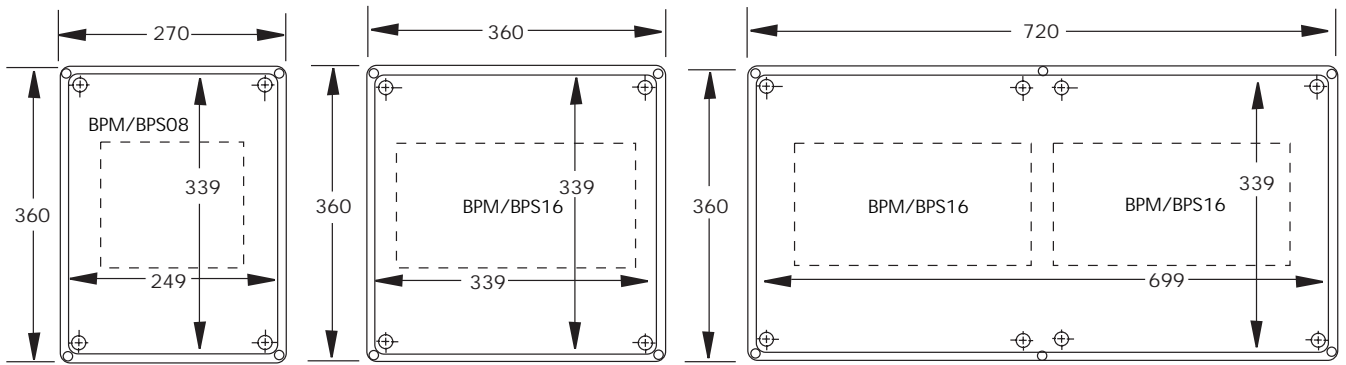
Backplane mounts

Necessary surface mounting kits (of screws, washers, spacers and retaining washers) are provided with the enclosure

Weight (without backplanes and units)

- BX08:** 3.7kg
BX16: 4.7kg
BX32: 10.6kg

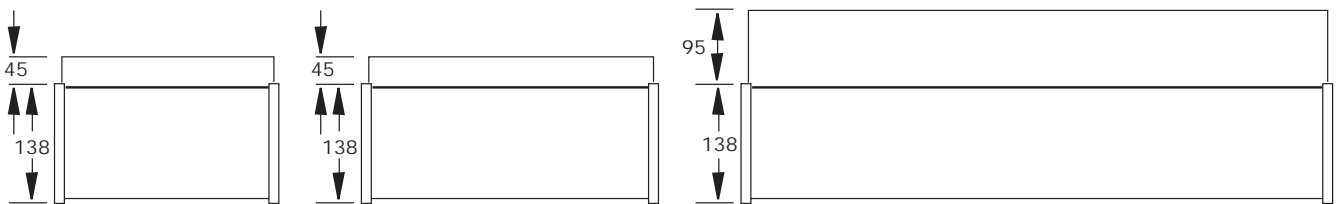
DIMENSIONS AND MOUNTING (mm)



BX08

BX16

BX32



MTL4000 SERIES ORDERING INFORMATION

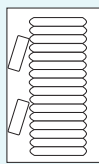


Intrinsically safe interface units

Specify module number

Module accessories

CCH01	Hazardous-area crimp connector
CRC01	Large crimps (100 per pack)
CRC02	Small crimps (100 per pack)
SCC01	Screw clamp connector
SCJ01	Hazardous-area screw clamp connector with integral CJC sensor (required for use with MTL4073 with THC inputs requiring CJC)
MPL01	Module position label (blank) (50 per pack)

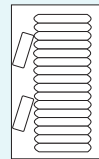


Backplanes

BPM08	8-way backplane multiway connector
BPM16	16-way backplane multiway connector
BPM24	24-way backplane multiway connector
BPS04	4-way backplane screw-clamp connector
BPS08	8-way backplane screw-clamp connector
BPS16	16-way backplane screw-clamp connector
BPS24	24-way backplane screw-clamp connector

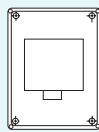
Backplane mounting accessories

DMK01	DIN-rail mounting kit, T- or G-section (pack of 40) 8-way backplanes require 4 16-way backplanes require 6
SMS01	Surface mounting kit (pack of 40) 4 and 8-way backplanes require 4 16-way backplanes require 6 24-way backplanes require 8
HMP24	Horizontal mounting plate and screws for 19-inch rack mounting 24-way backplanes only
BMK08	Mounting kit for one 4- or 8-way backplane
BMK16	Mounting kit for one 16-way backplane



Backplane accessories

ERK08	Earth rail kit for 8-way backplanes BPM08 or BPS08
ERK16	Earth rail kit for 16-way backplanes BPM16 or BPS16
TSK08	Tagging strip kit for 8-way backplanes BPM08 or BPS08
TSK16	Tagging strip kit for 16-way backplanes BPM16 or BPS16
TSK24	Tagging strip kit for 24-way backplanes BPM24 or BPS24
ELC56	Elco 8016, 56-way cable plug kit for use with BPM style backplanes – 1 required per 8 modules
FUS08	Fuse kit for 4 and 8-way backplanes (10 per pack)
FUS16	Fuse kit for 16-way backplanes (10 per pack)
FUS24	Fuse kit for 24-way backplanes (10 per pack)



Enclosures

BX08	8-way enclosure suitable for 1 BPM08 or BPS08
BX16	16-way enclosure suitable for 1 BPM16 or BPS16
BX32	32-way enclosure suitable for 2 BPM16 or BPS16



General Accessories

CRT01	Crimp tool
CRT02	Crimp tool
CRR01	Crimp removal tool for CRC01, CRC02, and power sense crimps



Literature

INM4000	MTL4000 Series instruction manual
AN9013	MTL4000 Series application note