

GB100M

Power Connection; Multiple Entries



Product Description

The GB100M Series is an above-insulation power connection kit with junction box for use with Gaumer GHT-CR, GHT-CT, GHU-CT and GHK-CT self-regulating heating cables.

GB100M-A and GB100M-E have one through-hole for conduit and fittings to connect power to a maximum of three heating cables, while GB100M-A-2P and GB100M-E-2P have two through-holes for conduit and fittings to connect dual power to two heating cable circuits. GB100M-A and GB100M-E can also be used for splice, tee, and end termination if the through hole is blocked with a sealing plug kit.

The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series use core sealer and RTV adhesive without the need for heatgun for installation. Spring-type terminals provide safe and reliable connections with capacity up to 8AWG conductor sizes for fine-stranded conductors.

GB100M-A and GB100M-A-2P have junction boxes with NPT 3/4" through holes, while GB100M-E and GB100M-E-2P have junction boxes with M25 through holes.

Ordering Information

GB100M-a-b

GB =	Connection kit series
100 =	Application;
	100 = Power connection and more
	200 = Tee or Splice connection, End termination
	300 = End seal, In-line splice connection
M =	Cable entry; S = single , M = multiple
a =	Regions;
	A = America
	E = Eurasia (Europe, and Asia)
b =	None = Single circuit
	2P = Two independent circuits



Specifications

	GB100M-A(-E)	GB100M-A(-E)-2P
Application	Power Connection for a maximum of three self-regulating heating cables	Dual Power Connection for two self-regulating heating cable circuits
Heating cable capability (No. of heating cable entry)	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Up to three heating cables)	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Two heating cable circuits)
Supply voltage	100 ~ 277V	100 ~ 277V
Ingress protection	NEMA Type 4X, IP66	NEMA Type 4X, IP66
Ambient temperature range	-40°F ~ 131°F (-40°C ~ 55°C)	-40°F ~ 131°F (-40°C ~ 55°C)
Minimum installation temperature	-40°F (-40°C)	-40°F (-40°C)
Through hole for conduit	NPT ¾" (M25) x 1	NPT ¾" (M25) x 2
Maximum conductor sizes*	8AWG (10mm ²)	8AWG (10mm ²)
Maximum circuit breaker size	50A (40A)	50A (40A)

[NOTE] GB100M Series requires Gaumer Sealing Plug Kit for splice, tee, or end termination.

* If a maximum conductor size of 6AWG (16mm²) is required, please contact Gaumer Process for larger terminal blocks.

Gaumer Process

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FM24US0113X, FM24CA0042X

Hazardous (classified) locations

Indoors and outdoors

Class I, Division 2, Groups A, B, C and D T*

Class II/III, Division 2, Groups E, F and G T*

Class I, Zone 1, AEx/Ex eb IIC T* Gb;

Zone 21, AEx/Ex tb IIIC T* °C Db;

Ta = -40°C to +55°C

NEMA Type 4X, IP66


FM24ATEX0018X

Ex II 2 G Ex eb IIC T* Gb;

Ex II 2 D Ex tb IIIC T* °C Db;

Ta = -40°C to +55°C

IP66


IECEx FMG 24.0017X

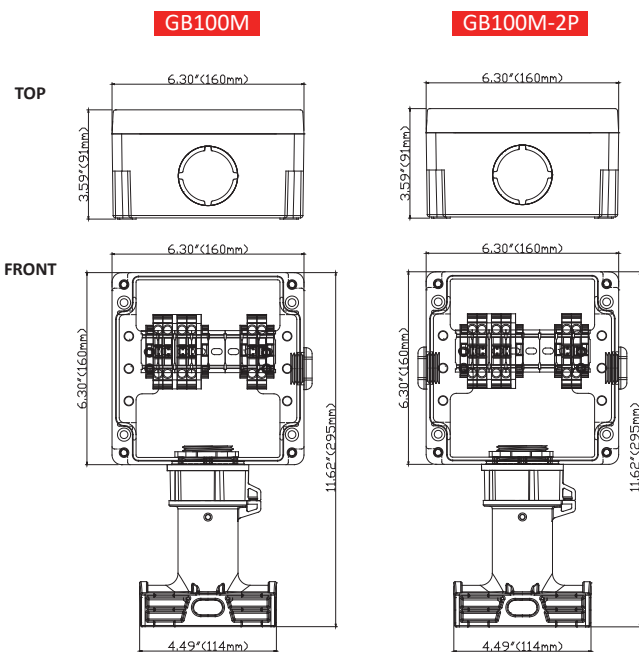
Ex eb IIC T* Gb;

Ex tb IIIC T* °C Db

Ta = -40°C to +55°C

IP66

***For T-rating, please refer to cable documentation.**



Material information

Contents	1 GB100M series junction box assembly with terminal blocks 1 Pipe stand and O-ring 1 Compression cap, square-ring, locknut 3 Grommets(S, M, L) for different cable sizes 3 Core sealers 3 Insulation tubes 1 RTV sealant 1 Wrench 1 Cable tie
Enclosure material	Glass reinforced polymer junction box Glass reinforced polymer lid with stainless steel screws Glass reinforced polymer box stand
Installation accessories (Sold separately)	Conduit and fittings Sealing plug kit Pipe straps Fiberglass tape Aluminum tape
Tools required	Wire cutters, Utility knife, Marking pen Large slotted screwdriver 3/16"(or 5mm) hex key Adjustable pliers, Needle nose pliers

[NOTE] Refer to the GB Kit Installation Instructions for full and current material details.

Technical information subject to change without notification.

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