



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX BAS 08.0065X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 10	Issue 9 (2020-05-04)
Date of Issue:	2021-06-09		Issue 8 (2019-03-26)
Applicant:	<b>Hawke International</b> A Division of Hubbell Limited A Member of the Hubbell Group of Companies Oxford Street West, Ashton-under-Lyne Lancashire, OL7 0NA <b>United Kingdom</b>		Issue 7 (2017-12-19)
Equipment:	<b>Range of sheet metal junction boxes (see schedule)</b>		Issue 6 (2016-10-13)
Optional accessory:			Issue 5 (2014-05-01)
Type of Protection:	<b>Increased Safety, Dust Protection by Enclosure, Intrinsic Safety. When Power Terminal and Optical Fibre Fusion Splice Cassettes are fitted: Increased Safety and Optical Radiation "op pr"</b>		Issue 4 (2013-08-20)
Marking:	See schedule		Issue 3 (2012-06-13)
			Issue 2 (2010-12-06)
			Issue 1 (2010-05-13)
			Issue 0 (2008-08-21)

Approved for issue on behalf of the IECEx  
Certification Body:

**R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

9/6/2021

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Certificate issued by:

**SGS Baseefa Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire, SK17 9RZ**  
**United Kingdom**





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Date of issue: 2021-06-09

Issue No: 10

Manufacturer: **Hawke International**  
A Division of Hubbell Limited  
A Member of the Hubbell Group of Companies  
Oxford Street West, Ashton-under-Lyne  
Lancashire, OL7 0NA  
**United Kingdom**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/BAS/ExTR08.0131/00](#)  
[GB/BAS/ExTR12.0156/00](#)  
[GB/BAS/ExTR16.0060/00](#)  
[GB/BAS/ExTR20.0080/00](#)

[GB/BAS/ExTR10.0096/00](#)  
[GB/BAS/ExTR13.0134/00](#)  
[GB/BAS/ExTR17.0122/00](#)  
[GB/BAS/ExTR21.0073/00](#)

[GB/BAS/ExTR10.0270/00](#)  
[GB/BAS/ExTR14.0135/00](#)  
[GB/BAS/ExTR18.0266/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0061/08](#)



# IECEX Certificate of Conformity

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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

This certificate covers the following 5 types of junction box range:

~ S\* range (Size 1 to 17) and M\* range (Size 1 to 9)

~ SFI\*, SFE\*, MFI\* and MFE\* range (Size 1 to 9).

~ EA\* and MEA\* range

~ EJB\* and MEJB\* range

~ EJBM1 and EJBM2 (Group I) range.

For full description please see Annex.

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

For Specific Conditions of Use Nos. 1 to 18 see Annex



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 10.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0: 2017 and IEC 60079-7: 2015: +Amd 1: 2017 in respect to the differences from IEC 60079-0: 2011 and IEC 60079-7: 2015. None of the differences in the standards affect this equipment. To also include new standard IEC 60079-28: 2015.

### Variation 10.2

To add optional Optical Fibre Fusion Splice Cassettes in the Size 4 to 9 (S, M, SFI, SFE, MFI and MFE) junction boxes (for EPL Gb). The Optical Fibre Fusion Splice Cassettes are within a cassette that is fitted in the junction box along with standard power and earth terminals.

When Power Terminals and Optical Fibre Fusion Splice Cassettes are fitted, the marking is as follows:

Ex eb op pr IIC T(see schedule) Gb

See Annex for full description.

### Variation 10.3

Specific Condition of Use Number 17 has been added.

### Variation 10.4

Specific Condition of Use Number 18 has been added.

ExTR: **GB/BAS/ExTR21.0073/00**

File Reference: **17/0470**

## Annex:

[IECEX BAS 08.0065X-10 Annex 7\\_1.pdf](#)

This certificate covers the following 5 types of junction box range:

- ~ S\* range (Size 1 to 17) and M\* range (Size 1 to 9)
- ~ SFI\*, SFE\*, MFI\* and MFE\* range (Size 1 to 9).
- ~ EA\* and MEA\* range
- ~ EJB\* and MEJB\* range
- ~ EJBM1 and EJBM2 (Group I) range.

**S\* range (Size 1 to 17) and M\* range (Size 1 to 9) and the SFI\*, SFE\*, MFI\* and MFE\* range (Size 1 to Size 9):**

The S\*, M\*, SFI\*, SFE\*, MFI\* and MFE\* are all a range of sheet metal junction boxes consisting of the Hawke type ZS1 to ZS17 and ZM1 to ZM9 range and the ZSFI1 to 9, ZSFE1 to 9, ZMFI1 to 9 and ZMFE1 to 9 range of sheet metal empty enclosures covered by SGS Baseefa Certificate Number IECEx BAS 08.0064U coded Ex eb IIC and Ex tb IIIC.

Size 1 to Size 9:

The Size 1 to Size 9 junction boxes may be fitted with a variety of different rail mounted terminal arrangements. All terminals are covered by their own component certificates and are coded Exe II or Ex eb IIC. The terminals permitted are listed on Drawing Number D9160 held on Baseefa General Technical File 0500 and on the Assembly Instructions. The terminals shall be used within their relevant temperature range and ratings and installed by Hawke International.

For the Size 1 to Size 9, the maximum number of terminals that may be fitted into each enclosure is calculated using the following formula:

$$\text{Power} = I^2 \times N(R_t + R_c) \text{ Watts}$$

Where:

I = Actual current through the conductor up to the maximum certified current for that terminal when fitted in an Ex eb enclosure (Amps)

N = Number of terminals

R<sub>t</sub> = Terminal resistance (Ohms @ 20°C)

R<sub>c</sub> = Resistance of one solid copper conductor (ohms @ 20°C) when using the maximum box diagonal

The junction boxes are IP66.

The marking is as follows:

Ex eb IIC T6 Gb

Ex tb IIIC T80°C Db IP66

Tamb (see schedule)

OR

Ex eb IIC T5 Gb

Ex tb IIIC T95°C Db IP66

Tamb (see schedule)

The maximum dissipated wattage for the Size 1 to Size 9 junction boxes are as follows:

Enclosure Type	Maximum Dissipated Power (Watts)						Cable length per terminal (m) (Max box diagonal)		
	T6		T5		T6				
	Amb -60°C +40°C	Amb -60°C +55°C	Amb -60°C +55°C	Amb -60°C +40°C	Amb -60°C +65°C	Amb -60°C +65°C			
Size 1: S1, M1, SFI1, SFE1, MFI1, MFE1	13.95		8.7		19.1		5.2	10.4	0.307
Size 2: S2, M2, SFI2, SFE2, MFI2, MFE2	18.15		11.3		24.9		6.8	13.6	0.425
Size 3: S3, M3, SFI3, SFE3, MFI3, MFE3	23.7		14.8		32.5		8.8	17.7	0.515
Size 4: S4, M4, SFI4, SFE4, MFI4, MFE4	29.95		18.7		41.1		11.2	22.4	0.579
Size 5: S5, M5, SFI5, SFE5, MFI5, MFE5	32.85		20.5		45.1		12.3	24.6	0.662
Size 6: S6, M6, SFI6, SFE6, MFI6, MFE6	40		25		55		15	30	0.792
Size 7: S7, M7, SFI7, SFE7, MFI7, MFE7	52		32.5		71.5		19.5	39	0.945
Size 8: S8, M8, SFI8, SFE8, MFI8, MFE8	65		40.6		89.3		24.3	48.7	1.09
Size 9: S9, M9, SFI9, SFE9, MFI9, MFE9	79.35		49.5		109.1		29.7	59.5	1.238

Alternative mid-range sizes in landscape orientation of S/M1 to 9 and ST/MT 1 to 9 range may be supplied. The junction boxes will be coded as follows: S\*L, M\*L, ST\*L, MT\*L e.g. S4L

When required, the junction box may be fitted with optional metallic or plastic trunking inside the junction box providing it is suitable for 80°C, meets the creepage and clearance requirements of IEC 60079-7, does not affect the IP rating of the junction box and the maximum permitted current rating of power terminals is limited to a maximum of 90% of the maximum terminal rating shown on D9160.

When required, the junction box may be coated in K-MASS Passive Fire Protection as a 13mm to 15mm thick coating on the outside face of the enclosure body and lid. Gland plates, sealing areas, mounting feet and earths are not coated. The maximum permitted current rating of power terminals shall be no more than 80% of the maximum terminal rating shown on D9160 for 2.5mm<sup>2</sup> terminals and above.

OPTION ~ Size 4 to Size 9 (S, M, SFI, SFE, MFI and MFE) Junction Boxes (for EPL Gb only):

These types of junction box may be fitted with Optical Fibre Fusion Splice Cassettes along with standard power and earth terminals. The junction boxes' maximum wattage value is reduced by the percentage of space taken up by the fusion slice cassette/s i.e. half fibre optics and half power terminals will reduce the wattage for the power terminals to 50%, one quarter fibre and three quarters power will reduce the wattage for the power terminals to 75%.

When Power Terminals and Optical Fibre Fusion Splice Cassettes are fitted, the marking is as follows:

Ex eb op pr IIC T(see schedule) Gb

Size 15 and Size 17:

The Size 15 and Size 17 junction boxes have special terminal arrangements as shown on Drawing Number 9720. The marking is as follows:

Size 15

Ex eb IIC T5 Gb  
Ex tb IIC T100°C Db IP66  
Tamb -20°C to +\*\*\*°C

Size 17

Ex eb IIC T4 Gb  
Ex tb IIC T135°C Db IP66  
Tamb -20°C to +\*\*\*°C

The maximum dissipated wattage for the Size 15 and Size 17 junction boxes are as follows:

Enclosure Type	Ratings				Maximum cable length per crimp connection
	T5	T5	T5	T5	
Size15: S15 and M15	Amb	Amb	Amb	Amb	570 mm
	-60°C	-60°C	-60°C	-60°C	
	+40°C	+45°C	+ 50°C	+55°C	
	Maximum Dissipated Power				
Minimum Cable Insulation Rating		80°C	80°C	80°C	80°C
<hr/>					
Size17: S17 and M17	T4	T4	T4	T4	570 mm
	Amb	Amb	Amb	Amb	
	-60°C	-60°C	-60°C	-60°C	
	+40°C	+45°C	+ 50°C	+55°C	
Maximum Dissipated Power		221.39 Watts			
Minimum Cable Insulation Rating		90°C	90°C	100°C	100°C

Note:- The Minimum Cable Insulation Ratings are based upon the maximum permitted current ratings. For lower current applications, calculations can be applied to assess lower cable insulation ratings.

**EA\* and type MEA\* range:**

The EA\* and MEA\* are a range of sheet metal junction boxes consisting of the Hawke type ZEA\* and ZMEA\* range of sheet metal empty enclosures covered by SGS Baseefa Certificate Number IECEx BAS 08.0064U coded Ex eb IIC Ex tb IIIC.

The enclosures may be fitted with a variety of different rail mounted terminal arrangements. All terminals are covered by their own component certificates and are coded Exe\* II. The terminals permitted are listed on Drawing Number D9160 held on Baseefa General Technical File 0500 and on the Assembly Instructions. The terminals shall be used within their relevant temperature range and ratings and installed by Hawke International.

The EA & MEA junction box range shall not be fitted with the 'screwless' type terminal designs.

The junction boxes are IP66.

The marking is as follows:

Ex eb IIC T6 Gb  
Ex tb IIIC T80°C Db IP66  
Tamb (see schedule)

Or

Ex eb IIC T5 Gb  
Ex tb IIIC T95°C Db IP66  
Tamb (see schedule)

The maximum dissipated wattage for the EA\* and MEA\* junction boxes are as follows:

Enclosure Type	Maximum Dissipated Power (Watts)						Cable length per terminal (m) (Max box diagonal)	
	T6	T5	T6	T5	T6	T5		
	Amb -60°C +40°C	Amb -60°C +55°C	Amb -60°C +55°C	Amb -60°C +40°C	Amb -60°C +65°C	Amb -60°C +65°C		
EA231513 and MEA231513	7.09		4.4		9.7	2.6	5.3	0.300
EA262620 and MEA262620	15.92		9.9		21.8	5.9	11.9	0.390
EA303020 and MEA303020	4.4		2.7		6.0	1.6	3.3	0.455
EA352620 and MEA352620	4.3		2.6		5.9	1.6	3.2	0.455
EA403020 and MEA403020	5.7		3.5		7.8	2.1	4.2	0.520
EA463820 and MEA463820	10.0		6.2		13.7	3.7	7.5	0.610
EA484820 and MEA484820	17.0		10.6		23.3	6.3	12.7	0.690
EA553522 and MEA553522	31.0		19.3		42.6	11.6	23.2	0.670
EA624522 and MEA624522	27.0		16.8		37.1	10.1	20.2	0.780

The EA\* and MEA\* range of junction boxes uses the Ex e marking, power dissipation method, labelling, internal/external earth facilities, entry hole data, trunking and accessories, in-line with the existing S1 to 9 and M1 to 9 range of junction boxes.

**EJB\* and MEJB1, MEJB\* range:**

The EJB\* and MEJB\* are a range of sheet metal junction boxes consisting of the Hawke type ZEJB\* and ZMEJB\* range of sheet metal empty enclosures covered by SGS Baseefa Certificate Number IECEx BAS 08.0064U coded Ex eb IIC and Ex tb IIIC.

The junction boxes may be fitted with a variety of different rail or direct mounted terminal arrangements. All terminals are covered by their own component certificates and are coded Exe II or Ex eb IIC. The terminals permitted are listed on Drawing Number D9160 held on Baseefa General Technical File 0500 and on the Assembly Instructions. The terminals shall be used within their relevant temperature range and ratings and installed by Hawke International.

The junction boxes are IP66 and IPX7

The marking is as follows:

Ex eb IIC T6 Gb  
Ex tb IIIC T80°C Db IP66  
Tamb (see schedule)

Or

Ex eb IIC T5 Gb  
Ex tb IIIC T95°C Db IP66  
Tamb (see schedule)

The maximum dissipated wattage for the EJB\* & MEJB\* junction boxes are as follows:

Junction box Type	Maximum Dissipated Power (Watts)						Cable length per terminal (m) (Max box diagonal)	
	T6	T5	T6	T5	T6	T5		
	Amb -60°C +40°C	Amb -60°C +55°C	Amb -60°C +55°C	Amb -60°C +40°C	Amb -60°C +65°C	Amb -60°C +65°C		
EJB1 and MEJB1	4.74		2.96		6.5	1.7	3.5	0.185
EJB2 and MEJB2	6.64		4.15		9.1	2.4	4.9	0.228
EJB3 and MEJB3	6.64		4.15		9.1	2.4	4.9	0.300

The maximum number of terminals calculation, certification label fixing, use of intrinsically safe (i.s.) circuits, internal/external earth stud requirements, breather drain requirements, trunking options, are as specified for the Size 1 to 9 junction boxes.

To suit the application the junction box mounting may be by 4 off M6, M8 or M10 studs welded to the rear of the junction box body.

### **EJBM1 and EJBM2 (Group I) range:**

The EJBM1 and EJBM2 are a range of sheet metal junction boxes consisting of the Hawke type ZEJBM1 and ZEJBM2 range of sheet metal empty enclosures covered by to Baseefa Certificate Number IECEx BAS.08.0064U coded Ex eb I.

The EJBM1 and EJBM2 junction boxes are identical to the existing Group II EJB1 and EJB2 junction boxes, but these Group I junction boxes are only permitted in stainless steel and are 2.0mm thick minimum.

The junction boxes uses the power dissipation calculation method, internal/external earth facilities, entry hole configurations, marking methods and accessories in-line with the existing Group II EJB1 and EJB2 junction boxes.

The junction boxes are IP66

The Group I marking is as follows:

### **Ex eb I Mb**

### **GENERAL ENCLOSURE INFORMATION:-**

The certification label may be stainless steel riveted, high bond tape secured, M3 or M5 nyloc screwed, stainless steel blind and clinch seal nut-cert, spot welded threaded stud, screwed to an intermediate riveted plate or self-adhesive foil or laser etched direct on to the lid. Additional labels may be fitted externally or internally for certification or general marking use.

When required, an alternative intermediate 'top hat' section label mounting bracket may be fitted to the lid, for use by the end user/installer to fit additional labels.

When required, optional M3, M4 or M5 studs on the outside of the lid may be used to fit additional labels.

The internal/external earth stud facilities are as described in the empty enclosure certificate IECEx BAS.08.0064U. The enclosures may be fitted with rail mounted or direct mounted suitably certified earth terminals to suit the application. When required a power terminal may be used as a 'clean earth' to suit the application.

Entry sizes and positions are as described in the empty enclosure certificate IECEx BAS.08.0064U and in the Assembly Instructions. All unused entry holes shall be fitted with a suitable certified stopping plug as listed on the empty enclosure certificate IECEx BAS.08.0064U.

When required, a component certified Breather/Drain device as described in the empty enclosure certificate IECEx BAS.08.0064U may be fitted in the bottom face of the enclosure.

When required to suit the application, the enclosure lid and/or gland plate gaskets may be supplied fitted with a self-adhesive backed fine wire mesh for EMC purposes.

For commercial purposes to suit the end users' application, the manufacturer has requested an optional alternative Gas and Dust Group marking code for non-mining applications.

The Gas Group code in the marking may be changed from IIC to that of either IIA or IIB on all non-mining products.

The Dust Group code in the marking may be changed from IIIC to that of either IIIA or IIIB on all non-mining products.

### **Junction boxes used for Intrinsically Safe applications:**

When required, the Ex eb marked junction box may be used for intrinsically safe (I.S.) applications. It shall be fitted with an additional external label stating 'Intrinsically Safe Circuits Enclosed'. The I.S. terminals may be blue in colour to suit the application.

When required, junction boxes containing Ex e terminals may be used for both Ex eb circuits and Ex i intrinsically safe (I.S.) circuits provided the relevant barrier or air gap is included and an additional external label stating 'Intrinsically Safe and Non- Intrinsically Safe circuits enclosed'. The I.S. terminals may be blue in colour to suit the application.

For commercial purposes to suit the application, the full range of sheet metal junction boxes may be marked with Intrinsically Safety (I.S.) Ex i\* coding. The manufacturer may opt to show both Ex eb and Ex i coding or just show Ex i coding on the certification label.

Marking options:

- a) When only Ex eb coding is marked on the certification label with the addition of a traffolyte label stating 'Intrinsically Safe circuits enclosed' or 'Intrinsically Safe and Non- Intrinsically Safe circuits enclosed', then the manufacturer shall show the ratings as the standard Ex e wattage, current and voltage ratings.
- b) When both Ex eb and Ex i coding is marked on the certification label, then the manufacturer shall show the ratings as the standard Ex e wattage, current and voltage ratings.
- c) When only Ex i\* coding is marked on the junction box, then the manufacturer shall show the ratings as the reduced I.S. wattage, current and voltage ratings in-line with IEC 60079-11.



For Group II junction boxes, the marking is as follows:

Ex ib IIC T6 Gb  
Ex ib IIIC T80°C Db  
or  
Ex ia IIC T6 Ga  
Ex ia IIIC T80°C Da

For Group I EJBM1 and EJBM2 junction boxes only, the marking is as follows:

Ex ia I Ma

### Specific Conditions of Use

1. Unused entry holes shall be fitted with stopping plugs as listed on the component certificate IECEx BAS 08.0064U, or fitted with suitable stopping plugs having an equipment certificate, or having a component certificate subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature of the component. The operating temperature range and ingress protection rating of the enclosure is limited to that of the stopping plug fitted.
2. Only component certified breather/drain devices listed on the component certificate IECEx BAS 08.0064U may be used, or any other suitable breather/drain devices having an equipment certificate that are suitable for the wall thickness of the enclosure to ensure draining can occur, subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature. The breather/drain devices must be installed in their correct orientation in the bottom face. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the breather/drain device fitted.
3. All terminal screws, used and unused, shall be tightened down by the end user.
4. Insulation of conductors must extend to within 1mm of the metal of the terminal throat unless specified otherwise on the terminal certificate.
5. No more than one single or multi-stranded lead shall be connected to either side of any terminal unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated bootlace ferrule, or any method indicated on the terminal certificate.
6. Terminals shall be installed in such a manner that the creepage and clearance distances between the terminal and adjacent components, enclosure walls and covers complying with the requirements of IEC 60079-7: 2006 for the rated voltage of the equipment.
7. Terminal temperatures must not exceed the operating range specified on the component certificate.
8. All terminals, and accessories such as cross-connectors, shall be installed in accordance with the terminal manufacturer's instructions. Hawke International will supply the relevant terminal manufacturer's instructions with each junction box covered by this certificate.
9. The maximum voltage, current and dissipated power shown on the rating label must not be exceeded.
10. When connecting conductors of cross section below the maximum allowed for the particular terminal then the maximum amps per pole must be reduced in-line with the maximum amps permitted for a terminal equivalent to the conductor size fitted e.g. If a terminal that can take a 6mm<sup>2</sup> conductor at 29Amps is fitted with a 2.5mm<sup>2</sup> conductor then the current shall be reduced to a maximum of 17Amps, or the rating marked on the apparatus label, whichever is the lower.
11. When metallic and non-metallic trunking is provided inside the junction box the maximum operating current in any circuit within the trunking is limited to 1A.
12. When a self-adhesive certification label is fitted, the minimum ambient temperature shall be -40°C.
13. When the junction box is coated with K-MASS, the maximum permitted current shall be limited no more than 80% of the maximum terminal rating shown on D9160 for 2.5mm<sup>2</sup> terminals and above. Also, there shall be a label stating 'Warning: Static Hazard, clean only with a damp cloth'.
14. Size 15 and Size 17 Junction Boxes:  
The minimum cable insulation ratings shall be as shown in the table above.
15. For the Group I EJBM1 and EJBM2, the accessories shall be suitable certified Group I equipment.
16. When optional additional non-metallic labels greater than 0.2mm thick are fitted, they shall be mounted direct on to the metal enclosure and there shall be at least 10mm between adjacent non-metallic labels.
17. For Dust Applications ~ When a non-metallic coating is applied to the enclosure: WARNING: Electrostatic hazard, clean only with a damp cloth.
18. When Power Terminals and Optical Fibre Fusion Splice Cassettes are fitted:  
The Power Dissipation method shall only be applied to the power terminals. The optical fibres and connections shall be protected from mechanical damage. The junction boxes' maximum wattage value is reduced by the percentage of space taken up by the fusion slice cassette/s i.e. half fibre optics and half power terminals will reduce the wattage for the power terminals to 50%, one quarter fibre and three quarters power will reduce the wattage for the power terminals to 75%.