DNV·GL

Certificate No:
TAE00003RY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)
PL6 Series,
PL7 Series,
S Series, EJB Series

Issued to
HAWKE International, A member of the Hubbell Group
Lancashire, United Kingdom

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Hazardous areas Junction boxes.
For the termination of copper or copper based conductors

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Type	Degree of protection	Vibration class
PL6 Series	**IP66/67**	**-**
PL7 Series	**IP66/67**	**-**
S Series, EJB Series	**IP66/67**	**-**

Issued at **Høvik** on **2019-10-10**
This Certificate is valid until **2024-10-09**.
DNV GL local station: **Manchester**

Approval Engineer: **Ivar Bull**

for **DNV GL**

Trond Sjåvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-032071-1**
Certificate No: **TAE00003RY**

Product description

Hazardous Area Junction box							
Type	**PL6 Series**						
Material	Glass Reinforced Polyester						
JB characteristics Max No entries per face Terminal type	Refer to PL612, PL615, PL620, PL626, PL626, PL630 datasheets and relevant documents.						
Maximum Power Dissipation T_a amb(-60 to --°C) Maximum Surface Temperature Assigned: T_6: 80°C T_5: 95°C	Box	T_a: +40 T_6	T_a: +55 T_6	T_a: +65 T_6	T_a: +40 T_5	T_a: +55 T_5	T_a:+65 T_5
	PL612	4,1W	2,5W	1,5W	5,6W	4,1W	3,0W
	PL615	6,4W	4W	2,4W	8,8W	6,4W	4,8W
	PL620	11,4W	7,1W	4,2W	15,6W	11,4W	8,5W
	PL626	11,4W	7,1W	4,2W	15,6W	11,4W	8,5W
	PL630	20,8W	13W	7,8W	28,6W	20,8W	15,6W
Max Voltage Rating	690V ac/dc Dependent on terminals used						
Operating Temperature	-60ºC to +75ºC						
Ingress Protection	IP66 or IP67						
Application	For the termination of copper or copper based conductors.						
Classification	Intended for use in explosive gas and dust atmosphere, high level protection, dust ignition protection enclosure, increased safety protection. See Marking as reference.						
Certification	ATEX, IECEx						
Marking	Hawke Address, Product type, (Tamb: - 60°C to+ T**°C) Ex II 2GD, Ex eb IIC Gb T*°C, Ex tb IIIC Db T80°C Maximum Dissipated Power, Volt, Amp, IP66/67, Cert. No, Ser. No/Year, Warning.						

Hazardous Area Junction box							
Type	**PL7 Series**						
Material	Glass Reinforced Polyester						
JB characteristics Max No entries per face Terminal type Limitation in datasheet	Refer to PL712 and PL722 datasheets and relevant documents.						
Max. Power Dissipation T_a amb(-60 to +--°C) Maximum Surface Temperature Assigned: T_6: 80°C T_5: 95°C	Box	T_a: +40 T_6	T_a: +55 T_6	T_a: +65 T_6	T_a: +40 T_6	T_a: +55 T_5	T_a:+65 T_5
	PL712	3,35W	2,15W	1,2W	4,6W	3,35W	2,4W
	PL722	5,32W	3,23W	1,9W	7,3W	5,32W	3,9W
Max Voltage Rating	690V ac/dc Dependent on terminals used						
Operating temperature	-60/-20ºC to +75ºC						
Ingress Protection	IP66 or IP67						
Application	For the termination of copper or copper based conductors.						
Classification	Intended for use in explosive gas and dust atmosphere, high level protection,dust ignition protection enclosure, increased safety protection.See Marking as reference.						
Certification	ATEX, IECEx						
Marking	Hawke Address, Product type, (Tamb: - 60/-20°C to+ T**°C) Ex II 2GD, Ex eb IIC Gb T*°C, Ex tb A21 IIIC Db T80°C Maximum Dissipated Power, Volt Amp, IP66/67, Cert. No, Ser. No/Year, Warning.						

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Hazardous Area Junction box							
Type	**S Series and EJB Series**						
Material	Grade 316L Stainless Steel						
Junction box characteristics Max No entries per face Terminal type	Refer to Size 1, 2, 2L, 3, 4, 4L, 5, 6, 7, 8, 9, 14, 17, EJB1, EJB2 datasheets and relevant docuemtns.						
Max Power Dissipation T_a amb(-60 to +--°C) Maximum Surface Temperature Assigned: T_6: 80°C T_5: 95°C T_4: 130°C		T_a: +40	T_a: +55	T_a: +65	T_a: +40	T_a: +55	T_a:+65
	Box	T_6	T_6	T_6	T_5	T_5	T_5
	Size 1	13,95	8,7	5,2	19,1	13,95	10,4
	Size 2	18,15	11,3	6,8	24,9	18,15	13,6
	Size 2L	18,15	11,3	6,8	24,9	18,15	13,6
	Size 3	23,70	14,8	8,8	32,5	23,70	17,7
	Size 4	29,95	18,7	11,2	41,1	29,95	22,4
	Size 4L	29,95	18,7	11,2	41,1	29,95	22,4
	Size 5	32,85	20,5	12,3	45,1	32,85	24,6
	Size 6	40,00	25,0	15,0	55,0	40,00	30,0
	Size 7	52,00	23,5	19,5	71,5	52,00	39,0
	Size 8	65,00	40,6	24,3	89,3	65,00	48,7
	Size 9	79,35	49,5	29,7	109,1	79,35	59,5
	EJB1	4,74	2,96	1,77	6,51	4,74	3,55
	EJB2	6,64	4,15	2,49	9,13	6,64	4,98
		T_a: +40 T5	T_a: +45 T5	T_a: +50 T5	T_a: +55 T5		
	Size 15	199,78					
		T_a: +40 T4	T_a: +45 T4	T_a: +50 T4	T_a: +55 T4		
	Size 17	221,39					
Max Voltage Rating	1100 V ac/dc Dependent on terminals used						
Operating Temperature	-60ºC to +80ºC						
Ingress Protection	IP66 or IP67						
Application	For the termination of copper or copper based conductors.						
Classification	Intended use in explosive gas and dust atmosphere, high level protection, dust ignition protection enclosure, increased safety protection. See Marking as reference.						
Certification	ATEX, IECEx						
Marking	Hawke Address, Product type, (Tamb: -20°C to+ T***°C) Ex II 2GD, Ex eb IIC Gb T*°C, Ex tb IIIC Db T**°C Maximum Dissipated Power, Volt, Amp, IP66/IP67, Cert. No, Ser. No/Year, Warning.						

Application/Limitation
The manufacturer's application instructions to be followed.
The manufacturer's assembly installation to be followed.
The information related to gas dangerous areas is for information only. Please refer to corresponding ATEX and IEC EX certificates.

Type Approval documentation

Tests carried out

PL6 Series	IEC/EN 60079-0, IEC/ EN 60079-7 and IEC/EN60079-31
PL7 Series	IEC/EN 60079-0, IEC/ EN 60079-7and IEC/EN 61241-1
S Series and EJB Series	IEC/EN 60079-0, IEC/ EN 60079-7 and IEC/EN60079-31

Marking of product
According to IECEx Certificate of Conformity. See also product description

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE