1 **PRODUCT CONFORMITY CERTIFICATE - System**

2 Certificate No. **Sira Ex17Y2272**

3 This Certificate is issued for the electrical system:

P8/IS

4 Submitted for certification by:

Hawker Electronics Limited
57, The Avenue
Rubery Industrial Estate
Birmingham
B45 9AL
United Kingdom

5 This electrical system and any acceptable variation thereto is specified in the schedule to this Certificate and the documents therein referred to.

6 Sira Certification Service, being accredited by the United Kingdom Accreditation Service (UKAS), certifies that the system has been found to comply with the following Standards:

IEC	EN
IEC 60079-25:2010	EN 60079-25:2010

The assessment is recorded in Sira Test Report R70138892A.

7 The supplier of the electrical system referred to in this Certificate has the responsibility to ensure that the system conforms to the specification laid down in the Schedule to this Certificate and has satisfied the routine verifications and tests referred to therein.

The use of this system will normally be the subject of National Legislation and/or Installation Codes.

Dated **07 December 2017**
File No. 70138892

C Ellaby
Deputy Certification Manager

Form 9002 Issue 5

UKAS PRODUCT CERTIFICATION
0011

Sira Certification Service
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SCHEDULE

PRODUCT CONFORMITY CERTIFICATE Sira Ex17Y2272 Dated **07 December 2017**

SYSTEM

1 Hazardous Area

Any of the following holder types – Certificates IECEx SIR 17.0066X and Sira 17ATEX2271X:

HPE5/X/IS	HPE7/X/IS	HPE7/P/X/IS	HPE7/PA/X/IS	HPE7/P/F/X/IS
HPE8/X/IS	HPE8/P/X/IS	HPE12/P/X/IS	HPE13A/X/IS	HPE13A/P/X/IS
HPE14/X/IS	HPE22/X/IS	HPE22/P/X/IS	HPE22/PA/X/IS	HPE22/P/Fa/X/IS
HPE23/X/IS	HPE23/P/X/IS			

2 Non-Hazardous Area

i. Equipment which is unspecified except that it must not be supplied from, nor contain, under normal or abnormal conditions, a source of potential with respect to earth (ground) in excess of 250V a.c. r.m.s or 250V d.c.

And

ii. Controllers Type P8/IS/X – Certificates IECEx SIR 17.0065X and Sira 17ATEX2270X. The supply circuits to the controllers shall be limited to overvoltage Category I/II as defined in IEC 60664-1.

3 Configuration

Up to ten controllers may be used within a system with up to three holders per controller connected i.e. three single electrode type holders connected to each of the controller terminals 'G', 'P1' and 'P2'. Multiple controller systems may employ a common 'G' holder with the controllers connected together via links between the controller 'G' terminals.

Where a multiple controller system incorporates a Holder Type HPE5/X/IS as a common 'G' holder, the maximum number of holders than can be connected to the controller 'P1' / 'P2' terminals is five.

The applicable hazardous area temperature classes and ambient temperature ranges for a particular multi-holder IS system are as follows:

Holders incorporated	Temperature Class	Ambient temperature range
HPE5/X/IS only	T6	-20°C to +40°C
Any type apart from HPE5/X/IS	T4	-20°C to +80°C
Any type	T4	-20°C to +40°C

3 Interconnecting Cable

For multiple systems where cable cores associated with the outputs from controllers from different systems are contained within the same cable then such cables shall be either:

i. Type A in accordance with IEC/EN 60079-25
or
ii. Type B in accordance with IEC/EN 60079-25

The capacitance and either the inductance or the inductance to resistance (L/R) ratio of the interconnecting cables shall not exceed the following values:

UKAS PRODUCT CERTIFICATION 0011

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Cable Parameters System with up to 6 controllers:

Group	Capacitance (µF)	Inductance (mH)	L/R Ratio (µH/Ω)
IIC	0.143	0.77	31
IIB	1.03	2.33	125
IIA	3.71	6.20	250

System with up to 10 controllers:

Group	Capacitance (µF)	Inductance (mH)	L/R Ratio (µH/Ω)
IIC	0.143	0.25	18.2
IIB	1.03	0.76	56
IIA	3.71	2.03	145

DESCRIPTIVE DOCUMENTS

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
3454	1 of 1	A	05 Dec 17	P8/IS Installation Diagram

CONDITIONS OF CERTIFICATION

1 The use of the Sira Certification Service Mark is subject to the Regulations applicable to the holders of Sira certificates.

2 This certificate relates only to the system specified herein as executed in the documents supplied for evaluation.

3 In affixing the certificate number Sira Ex 17Y2272 to the system the certificate holder / user / installer attests on their own responsibility that the system conforms to the descriptive system document. All apparatus within the system shall be readily identifiable and the descriptive system document shall be readily traceable.

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