

EU-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 18 ATEX 12263X** **Issue 0**
- [4] Product: **Current Transducers
ISC-***, ISC-***X5, ISC-***D, and ISC-***E
(with or without connection codes Y03, Y04, or Y23)**
- [5] Manufacturer: **Ohio Semitronics, Inc.**
- [6] Address: **4242 Reynolds Drive
Hilliard, Ohio, 43026, USA**
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012/A11:2013 and EN 60079-11:2012
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:



II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T135°C Da

-10°C ≤ Ta ≤ +60°C

Date of issue:
2019-03-11



Ståle Sandstad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 18 ATEX 12263X Issue 0

[15] **Description of Product**

The Ohio Semitronics ISC is a current transducer that measures currents by using a Hall-Effect sensor, together with an integrated signal conditioner board. All units are packaged in a split core configuration for ease of installation. The assembly is housed in a non-metallic enclosure and then completely encapsulated. External connection is provided via integral cable or connector.

Type Designation

The ISC model code is formatted as ISC-**aaabbccc**, where,

aaa is any three digit number

bb is an output code as follows:

Blank	0-2.9V Output
X5	0-5V Output
D	0-10V Output
E	4-20mA Output

ccc is a connection code as follows:

Blank	Integral cable* with terminal spades
Y03	Integral cable* with connector
Y04	Integral connector
Y23	Integral cable* with connector

* Max cable length is 4m

Intrinsic Safety Parameters

The supply and signal connections have the following entity parameters:

Supply		Signal	
$U_i =$	28V	$U_i =$	28V
$I_i =$	110mA	$I_i =$	29mA
$P_i =$	825mW	$P_i =$	210mW
$C_i =$	0	$C_i =$	40nF
$L_i =$	0	$L_i =$	0

[16] **Report No.:** 2018-3218, Issue 00
Project No.: PRJC-59655-2008-PRC-USA

[17] Specific Conditions of Use

- The non-metallic enclosure material has a surface resistance >10GΩ. Care shall be taken to avoid the generation of a potentially dangerous electrostatic charge. Clean only with a water damp cloth.
- Units supplied with an integral cable: The integral capacitance / inductance of the cable shall be considered during installation. The maximum cable length is 4 meters, as defined by the manufacturer.
- Connection codes Y03, and Y23 for EPL Ga: The metallic connector may be made of aluminum. Care shall be taken to avoid impact or friction which may cause an ignition hazard.
- Connection codes Y03, Y04, and Y23: The metallic connector does not have a dedicated connection to earth, and therefore could have a resistance to earth >10GΩ. Care shall be taken to avoid the generation of a potentially dangerous electrostatic charge.

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] Drawings and documents

Number	Title	Rev.	Date
0907-00001-A	Certificate Control Drawing, ISC-XXX, E, D, X5 & (Y03, Y04, Y23 suffix)	--	2019-01-22

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2019-03-11	2018-3218, Issue 00

END OF CERTIFICATE