

 IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEX Scheme visit www.iecex.com</small>	
Certificate No.:	IECEX ULD 13.0006U issue No.:0 Certificate history:.....
Status:	Current
Date of Issue:	2013-05-14 Page 1 of 3
Applicant:	Delcon Oy Veikkontie 4 Nummela, 03100 Finland
Electrical Apparatus: Optional accessory:	Solid State Relays and Mounting Bases
Type of Protection:	Non-Sparking "nA"
Marking:	Ex nA IIC Gc IECEX ULD 13.0006U
Approved for issue on behalf of the IECEX Certification Body:	Jasmin Omerovic
Position:	Certification Project Engineer
Signature: (for printed version)	_____
Date:	_____
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website .	
Certificate issued by: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>UL International DEMKO A/S Borupvang 5A, DK-2750 Ballerup Denmark</p> </div> <div style="text-align: center;">  </div> </div>	
 IECEX Certificate of Conformity	
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Manufacturer:	Delcon Oy Veikkontie 4 Nummela, 03100. Finland
Additional Manufacturing location (s):	
<p>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.</p>	
STANDARDS: The electrical apparatus 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<p><i>This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.</i></p>	
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in	
<u>Test Report:</u> US/UL/ExTR13.0038/00	
<u>Quality Assessment Report:</u> FI/VT/QAR11.0001/01	





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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

EX Solid State Relays, EXI -input and EXO -output with mounting bases, MIS -input and MOS -output. The solid state relay components are mounted on a PCB and housed within a plastic enclosure. The plastic enclosure is formed with one end open to allow insertion of the PCB. Power connection pins of the PCB protrude from the housing at the open end. Epoxy is poured in via the open end, fully encapsulating the PCB and components. A hole in the housing corresponds with an LED mounted to the PCB. A flat head UNC4-40 Brass/Ni screw is retained on the outside of the housing. This screw provides the means to secure the relay to a mounting base. A mounting base comprises a single base suitable for mounting to DIN-rail or G-rail. The mounting base is constructed from plastic. A PCB housed within the base fitted is with sockets accept the connection pins of the relay. Screw terminals manufactured by Phoenix Contacts or spring terminals manufactured by Wago installed on the base PCB enable connection of 12-22 AWG solid wire or 14-22 AWG stranded wire. One UNC4-40 nut is maintained in the base to accept the retaining screw of the relay.

Relay Model	Type	Voltage - up to three digits	Followed by	May be followed by
EX	I(Input)	12, 24, 25, 48, 49, 120, 125, 230, 250	CH	S or SN
		24	CHF	
		120, 230	CHI	
		24	CHL	
		120, 230	CHP	
		230	CHR	
	O(Output)	5, 12, 24	CH	
		5, 12, 24, 48, 120, 220	CHA	
		24, 48, 120, 220	CHA4	
		5, 12, 24, 48	CHX	
		5, 24	IHA	
		24	TR	
		5, 12, 24, A120, P120, A230, P230	TH	

Schedule Of Limitations

- 1) Assessment and determination of surface temperature class shall be performed when the devices are installed as part of equipment.
- 2) The Solid State Relays shall be installed in accordance with the manufacturers' documentation.
- 3) When installed for hazardous area installations, the Solid State Relays shall be installed entirely within a suitably certified enclosure appropriate for use in a minimum of designated Zone 2 explosive atmosphere areas and provide protection from impact, light, solid foreign objects and water ingress to a level of at least IP54.
- 4) The devices shall be de-rated in accordance with the manufacturer's instructions.
- 5) Solid State Relays EXI shall only be installed using MIS Base Units.
- 6) Solid State Relays EXO shall only be installed using MOS Base Units.
- 7) The screw terminals are suitable for field and factory wiring with the following conditions: Use 60/75°C copper wire only. Tighten torque to 3.5lbf in (0.39Nm) with wire range of 12-22 AWG solid and 14-22 AWG stranded.
- 8) The spring terminals are suitable for field and factory wiring with the following conditions: Use 60/75°C copper wire only. Wire range of No. 14-22 AWG solid or stranded.

CONDITIONS OF CERTIFICATION: NO