



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

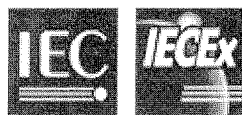
Certificate No.:	IECEX PTB 05.0005X	issue No.:0	Certificate history: Issue No. 0 (2005-4-22) Issue No. 0 (2005-4-22)
Status:	Current		
Date of Issue:	2005-04-22	Page 1 of 3	
Applicant:	Nass Magnet GmbH Eckenerstraße 4-6 30179 Hannover Germany		
Electrical Apparatus: <i>Optional accessory:</i>	Solenoid operator Type 0518... and Type 1218...		
Type of Protection:	IEC 60079-18:1992 and IEC 61241-1-1:1999		
Marking:	Ex m II T6, T5, T4 and IP 65 DIP A21 T 80 °C, T 95 °C, T 130 °C		
<i>Approved for issue on behalf of the IECEx Certification Body:</i>	Dr.-Ing. Ulrich Johannsmeyer		
<i>Position:</i>	Head of Department "Intrinsic Safety and Safety of systems"		
<i>Signature: (for printed version)</i>	_____		
<i>Date:</i>	_____		

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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer:

Nass Magnet GmbH and Precision Controls Kft
Eckenerstraße 4-6, 30179 Hannover, Germany
Henger utca 2, 8200 Veszprem, Hungary
Germany

Manufacturing location(s):

Nass Magnet GmbH
Eckenerstraße 4-6
30179 Hannover
Germany

Precision Controls Kft
Henger utca 2
8200 Veszprem
Hungary

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 product 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 electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identification documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-18 : 1992 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 18: Encapsulation 'm'
IEC 61241-1-1 : 1999 Edition: 2	Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus

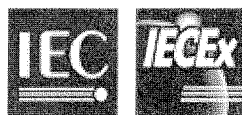
*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

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

IECEX ATR:
DE/PTB/05-006

File Reference:
B032086



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The valve magnet consists of a solenoid, an armature system and a fixing nut. The armature guide forms the flameproof part of the magnet, the guide tube is tested at 1.5 fold the operating pressure. Depending on its design the guide tube suitable for thread-mounting or flange-mounting. The coil is manufactured of varnished copper wire with insulation class H. This coil is injection-moulded with pre-plastified granules in a mould. A PCB with electronic components is soldered to the terminals of the casted part of the coil. A housing made of glass-fibre-reinforced polyimide is mounted over the terminals and casted. Electrical data see Annex.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. A fuse corresponding to its rated current (max. $3 \times I_{rat}$ according IEC 60127-2-1) or a motor protecting switch with short-circuit and thermal instantaneous tripping (set to rated current) shall be connected in series to each solenoid as short circuit protection. For very low rated currents of the solenoid the fuse of lowest current value according to the indicated IEC standard will be sufficient. The fuse may be accommodated in the associated supply unit or shall be separately arranged. The rated voltage of the fuse shall be equal to or higher than the stated rated voltage of the magnet coil. The breaking capacity of the fuse-link shall be as high as or higher than the prospective maximum short circuit current at the location of the installation (usually 1500 A).
2. A maximum permissible ripple of 20 % is valid for all magnets of direct-current design.

Annexe: Annexe to Certificate No.pdf

