

Explosion-proof magnetic body according to ATEX – IECEx

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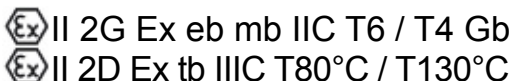

Product group

F MM E

Function

- Magnetic body to be mounted on the suitable tube
- For ON/OFF and proportional solenoids
- Combination with hydraulic tubes and tubes for linear solenoids and locking devices
- High power density
- High corrosion protection

Construction

- Electrical connection via robust terminal made of metal
- Construction size: 35mm, 45mm, 60mm
- Protection class according to DIN VDE 470/EN 60 529 when properly installed: IP65
- Integrated circuit with TVS diode
- Explosion protection: 


Application examples

- Hydraulic and mechanical applications in explosive atmospheres (Gas: Zone 1 resp. EPL Gb, Dust: Zone 21 resp. EPL Db) e.g. in chemical companies, Refineries and refueling facilities

Options and accessories

- Protection class IP 67
- Versions with thread for cable glands provided by the customer
- Alternative cable glands
- AC version with bridge rectifier

Standards and approvals

- Design and testing according to DIN VDE 0580
Production according to ISO 9001, DIN EN ISO/IEC 80079-34
- ATEX, IECEx



Fig. 1: Type F MM E 035 K01 A01

Technical Data

The table below shows the respective possible limits and variants for the stated values.

For determination of the suitable coil for your application, we ask you to please inform us about your operating conditions, if possible within the limits stated below.

F M M E ... K01 A01	035	045	060
Operating mode	S1 (100 %)		
Temperature classes / Max. surface temperature	T4 / T130°C T6 / T80°C		
Ambient temperatures T_a ¹⁾ (°C)	-30 ... +40 -30 ... +50 -30 ... +60 Extended ambient temperature range: -40....+80 on request		
Rated voltage DC U_N (V)	5 ... 230 (+/- 10%)		
Assembly	without valve part alternatively on hydraulic valve made of iron or of material with the same or better thermal conductivity		
Min. dimension hydraulic valve (mm ³) (for assembly with valve)	46x76x66		67x67x82 + 105x32x116

Table 1: Technical data

¹⁾ The ambient temperature resp. reference temperature must not be exceeded by a heat input by an operating medium (e.g. oil).

Rated voltage / Rated current

The preferred value for rated voltage is 24V for DC and 230V for AC. Adaptations of the windings are possible in the ranges specified in table 1.

For the use of the coil on a proportional solenoid the rated current will become relevant instead of the rated voltage.

Protection class, protective conductor connection

The devices correspond to protection class I.

Due to their construction devices with renewable solenoid body do not have a continuous proper protective conductor connection between the protective conductor connector of the solenoid body and the tube.


A proper protective conductor connection of the tube resp. of the connected valve is to be ensured by the user.

Information and remarks concerning European directives can be taken from the correspondent information sheet which is available under *Produktinfo.Magnet-Schultz.com*.

Note on the RoHS Directive

The devices presented in this document do not fall into the scope of RoHS Directive and to our knowledge they do not become part of products which fall into this scope. In case of surfaces zinc coating with yellow chromating and zinc iron with black chromating separate agreements are necessary for applications within the scope of RoHS.

Please note the respective operating manual delivered with each device. An EC conformity declaration of the manufacturer is attached to every delivery one time.

Please make sure that the described devices are suitable for your application. Supplementary information concerning its proper installation can be taken also from the  –Technical Explanation, the effective DIN VDE0580 as well as the relevant specifications.

This part list is a document for technically qualified personnel.

The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively.

Maßbild

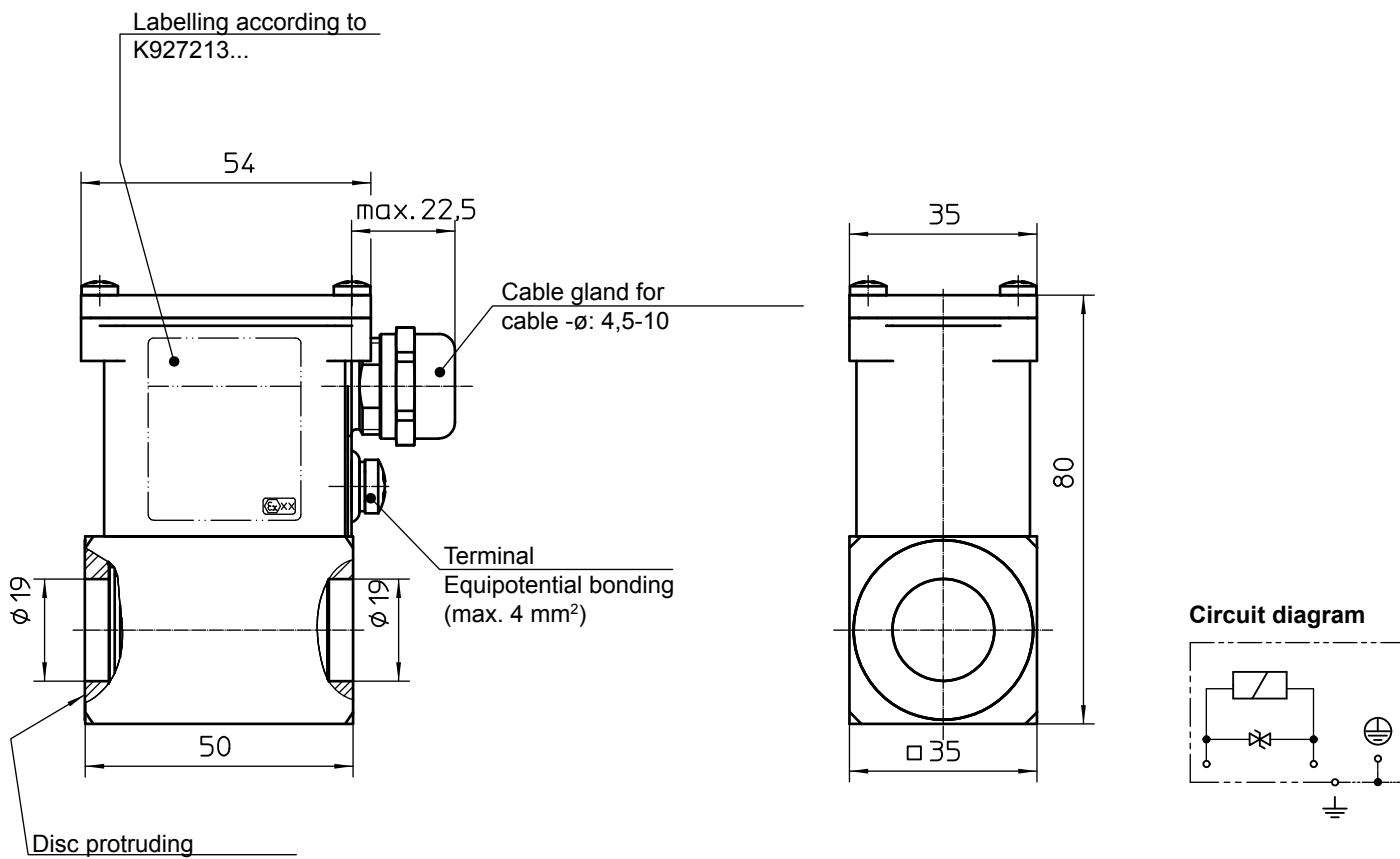
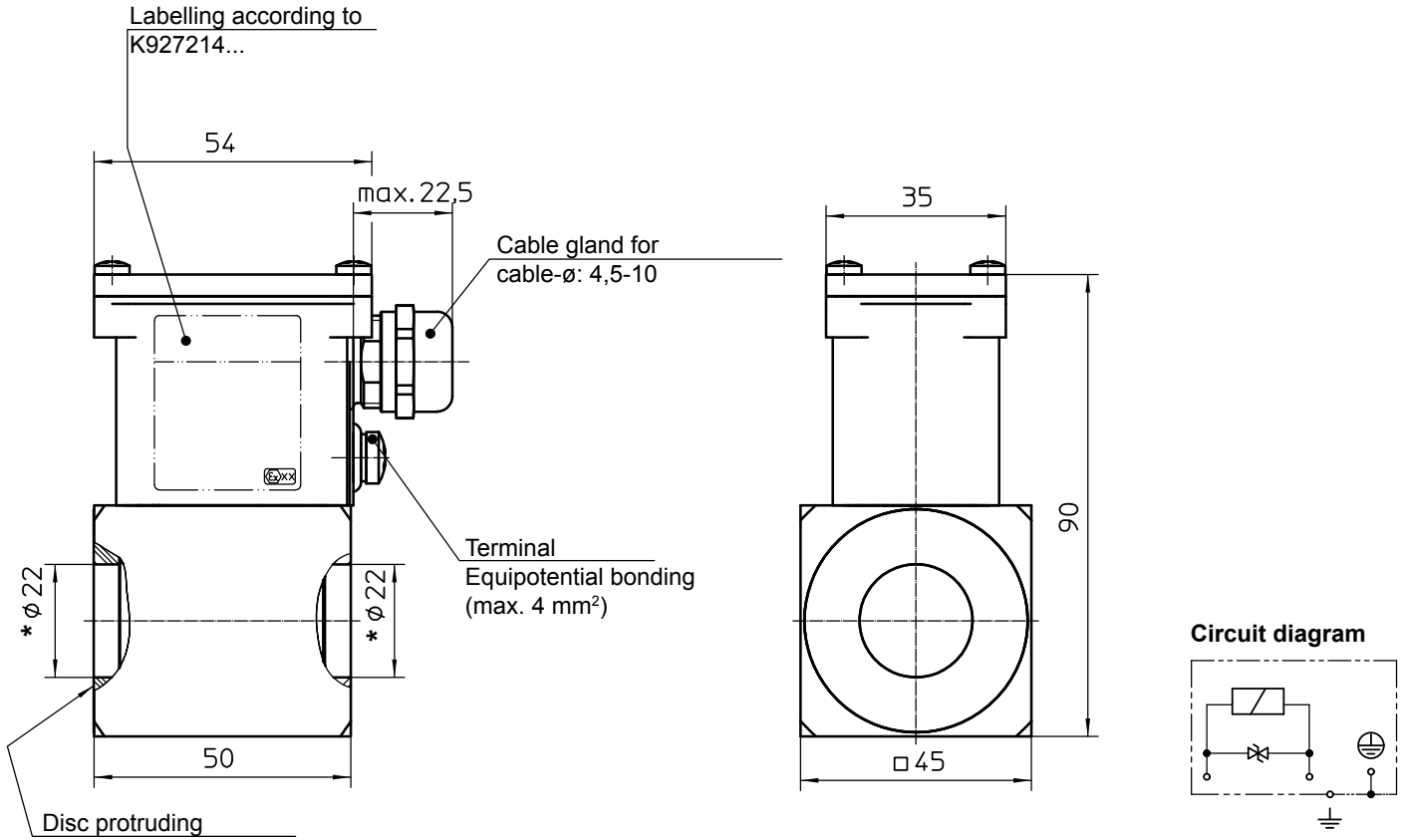


Fig. 2: Type F MM E 035 K01 A01



*** Variants with ø19 mm and ø23 mm on request**

Fig. 3: Type F MM E 045 K01 A01

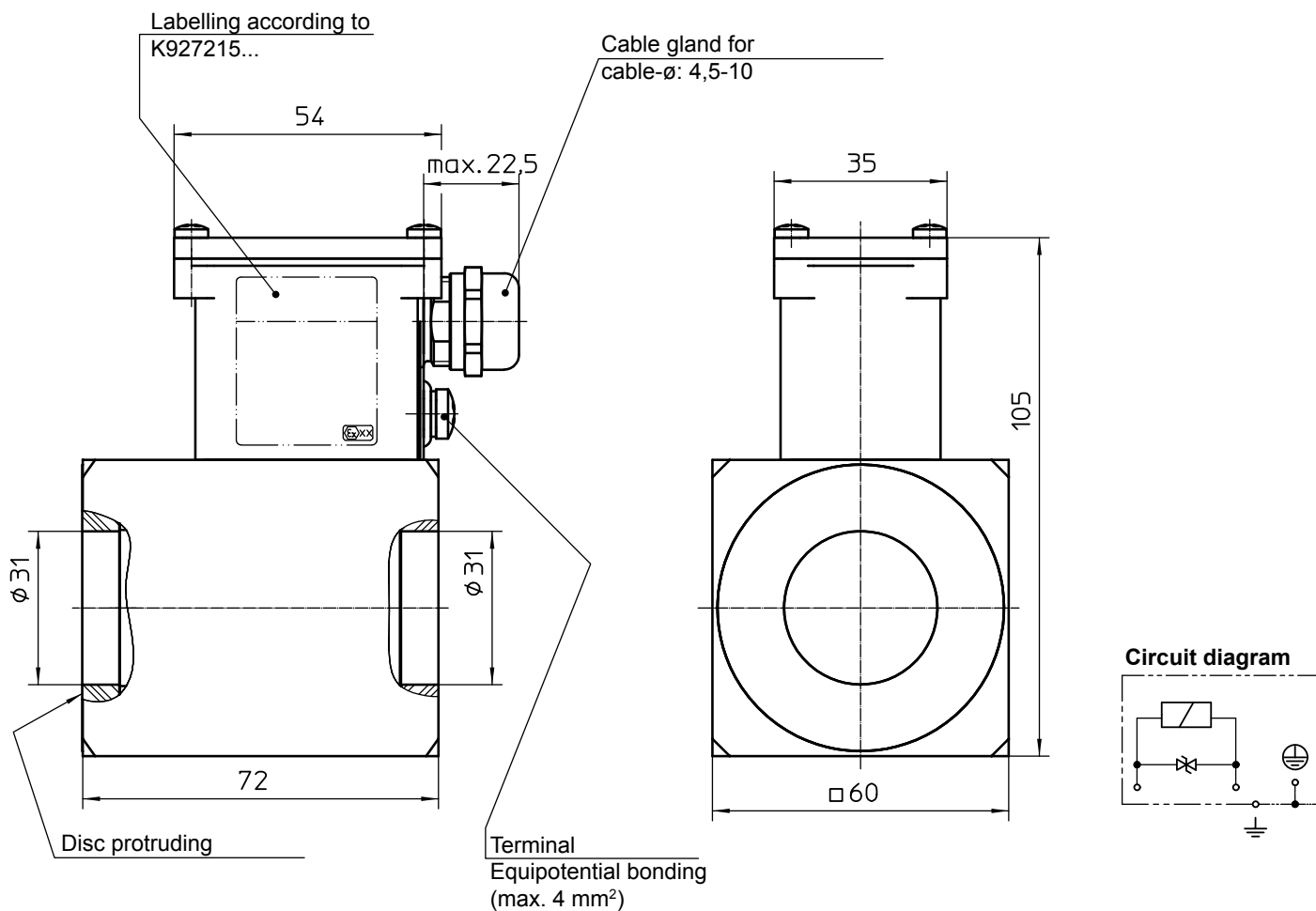


Fig. 4: Type F MM E 060 K01 A01

Type code

						Designation + ID number		
						F MM E ... K01 A01		
Possible combinations with tube		Ambient temperature range	Rated voltage	Heat dissipation via the valve part	Temperature class	035	045	060
Linear solenoid		-30°C ... +40°C	24 V DC	No	T4	927213-001	927214-001	927215-001
Shotbolt Lock Unit								
ON/OFF solenoid for hydraulic applications		-30°C ... +50°C		Yes		927213-002	927214-002	927215-002
Proportional solenoid for hydraulic applications						927213-003	927214-003	927215-003
ON/OFF solenoid for hydraulic applications				No		927213-004	927214-004	927215-004
Proportional solenoid for hydraulic applications						927213-005	927214-005	927215-005

Example

Type	F MM E 035 K01 A01
Voltage	== 24 V DC
Ident-Nr.	927213-002
Ambient temperature	-30°C ... +50°C
Temperature class	T4
Heat dissipation	via the valve part

Specials designs

Please do not hesitate to ask us for application-oriented problem solutions. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant -Technical Explanations.

If necessary, please request the support of our corresponding technical office.