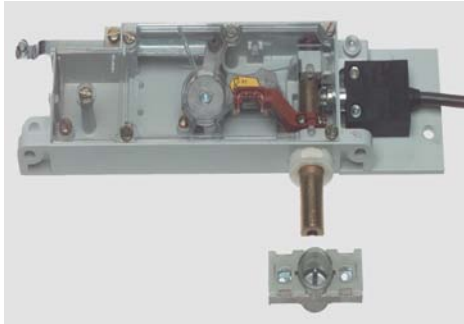


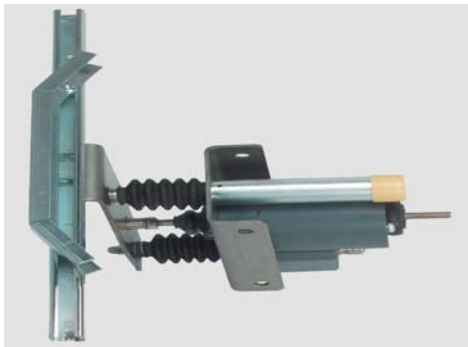
MKR 13 - EX  
Magnet switch



DOOR LOCK DLF 1 AND DL 1 EX  
Safety component with EG-type approval certificate



RETIRING RAMP EMT 81 EX  
Electromagnetic retiring ramp



Please forward full details for a layout drawing and full quotation

TEL: 0116 266 2241

E-Mail: sales@elevatorequipment.co.uk



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**Kronenberg manufacture a range of EX operating panels and landing stations, which can comprise push buttons, key switches, indicators and include LED type position and direction indicators.**



**ATEX**

Kronenberg has been producing switches and operating panels for many years, suitable for the use in explosion endangered areas.

The ex-protection is now in a transition phase because all national regulations run out or must be adapted to the international regulations. This change has already taken place in the German standardisation.

The new EG regulation **94/9/EG (ATEX 100a)** is valid for all industrial EX-areas including mining and also integrates dust explosion protection. The field of application covers all electrical and mechanical devices and protection systems. This directive has been valid since March, 1<sup>st</sup> of 1996, and the old EG regulation 79/196/ EWG applies only till June, 30<sup>th</sup> of 2003. In the transition period a „mixing“ of both regulations is possible, if the basic safety demands are fulfilled.

For all components used by Kronenberg the standards according to **ATEX** is used. In the following declarations only such terms are listed that have a direct reference to the components offered by Kronenberg. This is not a complete excursion into the extensive field of explosion protection.

An **explosion-capable atmosphere** is a mixture of air and inflammable gases, fumes, fogs or dusts under atmospheric conditions where after an ignition occurred the combustion process is transferred to the whole unburned mixture.

An **explosion-endangered area** is an area where the atmosphere can get explosion-capable because of the local and operational conditions.

Explosion-endangered areas are subdivided into zones. The **zone 0 (category 1 G)** for gases, fumes, fogs and the **zone 20 (category 1 D)** for dusts are valid for areas, where the explosion-capable atmosphere is permanent, long-term or often available. In **zone 1 (category 2 G)** or **21 (category 2 D)** only from time to time an explosion-capable atmosphere must be expected.

In zone 0 or 20 only such electrical operating equipment must be used whose **certification of conformity** or **type approval certificate** explicitly confirms the usability in this zone.



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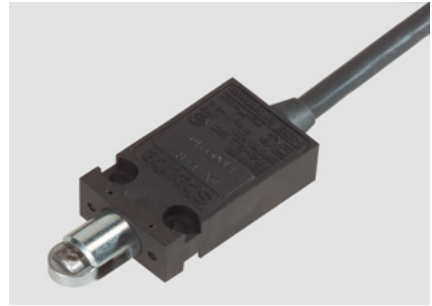
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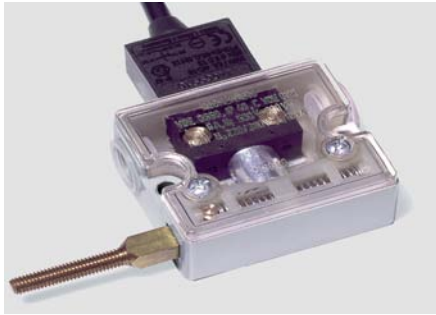
**EX 13 R**  
Safety switch  
with roller plunger



**EX14 R**  
Small version safety switch  
with roller plunger



**SF1 - EX**  
Position or safety switch  
with spring return



**WZF 2 - EX**  
Door switch or interlock  
with separate actuator



**US - EX**  
Direction limit switch



**FES - EX**  
Limit switch



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