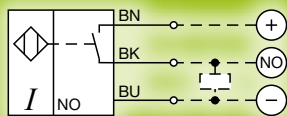




your reliable partner

Contactless release monitoring

for ROBA-stop® safety brakes



Contactless release monitoring for ROBA-stop[®] safety brakes

- Wear-free**
- Robust**
- Magnetic field-resistant**
- Absolutely reliable**

Release monitoring function

Release monitoring prevents unpermitted operating conditions such as for example starting up against a closed brake. *mayr*[®] power transmission, international leaders in safety brakes for safety-critical applications such as for example passenger elevators or vertical axes, now provides a contactless system with inductive proximity switches for its safety brakes as an alternative to the tried and tested release monitoring system with microswitches.

Maximum reliability

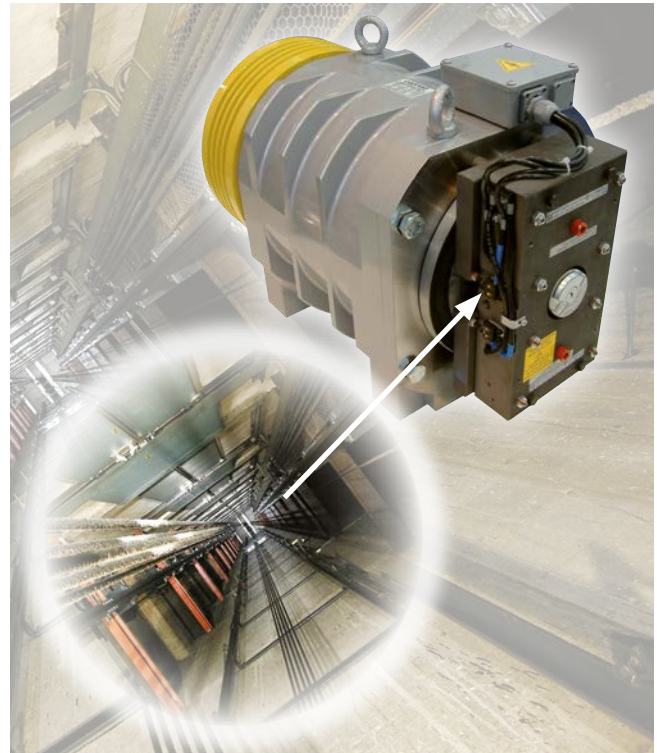
As there are no mechanical parts involved, the service lifetime of this new, contactless release monitoring system is not dependent on the switching frequency. The system is **magnetic field-resistant** and works **absolutely reliably** and **wear-free**. It is also resistant to impacts and vibrations, as there are no movable parts, and the electronics are completely encapsulated.

High repetitive accuracy

Other advantages of the inductive proximity switch are the high switching point repetitive accuracy, the low hysteresis and the low temperature drift.

Application errors excluded

The switching bolt for the inductive proximity switch is installed at the factory and is, in contrast to the release monitoring system with microswitch, not adjustable. Application errors through adjustment of the switching point position can be excluded. This feature, too, plays an important role in maximising functional and operating safety.



Gearless elevator drive with the redundant safety brake ROBA[®]-twinstop[®]. Both brake circuits are equipped with a release monitoring unit each.

Optionally NO or NC contacts

The contactless release monitoring system can be designed either as an NO or NC contact.

NC contact function

With the NC contact function, the 'High' signal is generated if the brake is switched when de-energised. Here the armature disk drops and the brake closes. Cable breakage is recognised when the brake is closed.

NO contact function

With the NO contact function, the 'High' signal is generated if the brake is energised and the armature disk releases the rotor. The brake is released. Only on generation of the 'High' signal is the motor enabled for start-up. This reliably prevents the motor from starting up against a closed brake. Cable breakage is recognised when the brake is open.

Brake type series with release monitoring

Almost all safety brakes by *mayr*[®] power transmission, which have up to now been equipped with a release monitoring system on microswitch-basis, can now also be equipped with the contactless system with inductive proximity switch. It is possible to integrate the release monitoring system into the following brake type series:

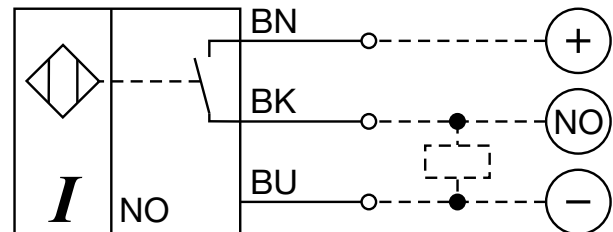
- ROBA[®]-topstop[®]
- ROBA[®]-twinstop[®]
- ROBA[®]-duplostop[®]
- ROBA-stop[®]-silenzio[®]
- etc.



Technical data

Operating voltage	10 ... 30 VDC
DC rated operating current	< 150 mA
Ambient temperature	-25 to +85 °C
Repetitive accuracy	< 0,015 mm
Hysteresis	< 0,025 mm
Temperature drift (-25 °C to +85 °C)	< +/- 0,05 mm
Reliability characteristic value (MTBF acc. SN 29500)	6354 years

NO contact function wiring diagram



Further variants of the electrical release monitoring system are possible. Further information is available on request.

Same installation dimensions – Differences in electrical connection

Compatible and interchangeable

The contactless release monitoring system has exactly the same installation dimensions as the microswitch design. Both systems are interchangeable.

The detail pictures below show a ROBA-stop[®]-silenzio[®] with proximity switch release monitoring (left) and microswitch release monitoring (right).

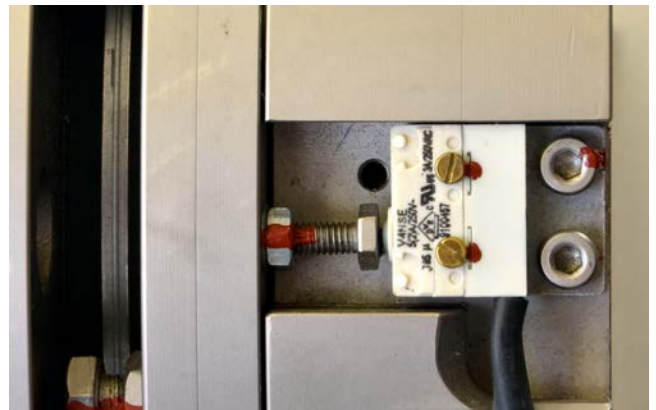
Electrical connection

The **release monitoring with microswitch** requires only two lines as NC or NO contact. Only when used as a changeover contact, three lines are necessary.

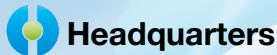
The **contactless release monitoring** always requires three lines – one each for the voltage supply, the ground connection and the signal.



Contactless release monitoring with inductive proximity switches



Release monitoring with microswitch



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You can find the complete address for the representative responsible for your area under www.mayr.com in the internet.