

MAGNETIC PROCESS INTERLOCK

ZCode-MZ



SAFETY

Process-Protection for any Circumstances!

ZCode-MZ is a coded tamperproofed safety switch for the process protection in machinery and plant engineering. The **ZCode-MZ** has been developed to provide a reliable door interlock. Coding is achieved by using radio frequency (RFID) and magnetic technology, both principles need to be satisfied for the switch to operate safely. This redundant diverse structure provides the highest degree of anti-tamper, virtually impossible to override. The different housing materials allow the use in almost any environments, including high pressure cleaning following contamination from foreign particles. (e.g. Pharma and Food Industry). The Stainless Steel 316 version of the **ZCode-MZE** incorporates a Stainless Steel magnet and has an IP69K ingress protection rating making it suitable for CIP and SIP processes. **ZCode-MZ** has a high specified polymer body material. Suitable and certified for the highest safety standards according to EN ISO 13849-1, EN ISO 14119 and EN 62061.

- IP69K for **ZCode-MZE**, IP67 for **ZCode-MZ**
- RFID- und Magnetic Technology
- 2 NC safety outputs, 1 NO auxiliary output
- Connect up to 20 switches to one standard safety relay
- Holding forces up to 1500 N
- Master- und Unicode available
- Connect up to 20 switches to one standard safety relay (e.g. ZANDER SR-Series) or to one safety controller (e.g. ZANDER TALOS®).
- Up to PL e, Cat. 4 according to EN ISO 13849-1 and SILCL 3 according to EN 62061
- 2 Status LED`s.



ZCode-MZE-S



ZCode-MZE-L



ZCode-MZ-S

Your benefits at a glance:

- Ideally suited for food and pharmaceutical applications
- Maximal degree of anti-tamper according to EN ISO 14119
- Compact housing, several holding forces
- Suitable and certified for the highest safety standards
- Series connection reduces the costs for the necessary logic devices
- Direct diagnostic at the interlock
- Easy connection to a standard safety relay (e.g. ZANDER SR-Series) or to a safety controller (e.g. ZANDER TALOS®).



General Technical Data	ZCode-MZ
Corresponds to the standards	EN 60204-1; DIN EN ISO 13849-1; IEC 60947-5-3; UL508, DIN EN ISO 14119
Approvals	CE, TÜV
Power supply	DC 24 V, +/- 10 % (SELV / PELV)
Holding force	Depending on body material and type, 600 - 1500 N
Maximum switched current	200 mA (Minimum internal resistance 8.5 Ohms)
Dielectric withstand	AC 250 V
Recommended setting gap	5 mm
Switching distance, max.	1 mm close / 10 mm open
Tolerance to misalignment	5 mm in any direction from 5 mm setting gap
Switching frequency	max. 1.0 Hz
Approach speed	200 mm/min - 1000 mm/s
Body material	MZ: Die-Cast, MZA: Plastic, MZE: Stainless Steel 316
Protection	IP67, IP69K (Stainless Steel)
Temperature range	-25 °C to +40 °C
Mounting	each 2 x M5 screws; tightening torque 1 Nm
Cable	PVC 8 core, 6 mm OD
Weight	Depends on body material & holding force (e.g. MZE-L approx. 1700 g)
Dimensions	Type S: 115 x 80 x 28.5 mm, Type L: 96 x 64 x 26.5 mm

Order Number	Article Stainless Steel Types
Order No. 941501	ZCode-MZE-LM, M12, 600 N Holding Force, Mastercode, incl. Actuator
Order No. 941502	Spare Actuator MZE-LM (Mastercode)
Order No. 941504	ZCode-MZE-LU, M12, 600 N Holding Force, Unicode, incl. Actuator
Order No. 941506	ZCode-MZE-SM, M12, 1100 N Holding Force, Mastercode, incl. Actuator
Order No. 941507	Spare Actuator MZE-SM (Mastercode)
Order No. 941509	ZCode-MZE-SU, M12, 1100 N Holding Force, Unicode, incl. Actuator
Order Number	Article Plastic Types
Order No. 941521	ZCode-MZ-LM, M12, 1000 N Holding Force, Mastercode, incl. Actuator
Order No. 941522	Spare Actuator MZ-LM (Mastercode)
Order No. 941524	ZCode-MZ-LU, M12, 1000 N Holding Force, Unicode, incl. Actuator
Order No. 941526	ZCode-MZ-SM, M12, 1500 N Holding Force, Mastercode, incl. Actuator
Order No. 941527	Spare Actuator MZ-SM (Mastercode)
Order No. 941529	ZCode-MZ-SU, M12, 1500 N Holding Force, Unicode, incl. Actuator

Die-Cast Housings available Upon Request. All types are also available with 5 m cable.

