

IDEM KLM-Z-4ST STAINLESS STEEL LOCKABLE SWITCH

457001AZ

KLM-Z-4ST M20 manual release lid and side Std
Actuator

- Locking force F1Max = 3000N
- PL e/Kat. 4
- Option release escape
- Space for 4 buttons (lamps, switches, e-stop)
- Built-in KLM-Z breaker with RFID coding

PRODUCT DESCRIPTION

The IDEM KLM-Z-4ST is a rugged, RFID-coded safety interlock switch with built-in guard locking and enhanced machine control features, all in a compact die-cast housing with a stainless-steel head. It offers Type 4 high-level coding per ISO 14119 and delivers dual solid-state OSSD safety outputs plus two auxiliary outputs for guard and lock state monitoring, enabling seamless integration into high-performance safety architectures (Cat 4 PLe / SIL 3). The solenoid-actuated lock achieves a holding force of 3 000 N ($F_{zh} \approx 2\,307\text{ N}$), with a 5 mm actuator insertion ensuring reliable engagement. It operates on 24 Vdc ($\pm 10\%$), draws $\leq 50\text{ mA}$ control current and up to 500 mA when energising the solenoid, and provides 22 mm openings for optional push-buttons or indicator lamps housed within the main unit. The rotatable stainless-steel head supports up to eight actuator entry positions, will accommodate pressured front or side entry, and offers versions with lid-only, lid-and-side, manual-release, or rear-release configurations, perfect for flexible mounting needs.

The KLM-Z-4ST is ideal for machinery with limited space (designed for 50 mm frame rails), requiring secure interlocking and control request functions, such as in robotics cells, automated packaging, or press lines. Its integrated push-button or lamp stations allow operators to request machine readiness or signal statuses directly at the guard locking unit, eliminating the need for separate HMI panels. With IP65 rating, operating temperatures from $-25\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$, vibration resistance, and a mechanical lifespan exceeding 2.5 million cycles, it's built for durability in industrial environments. Enhanced by continuous self-testing of safety outputs and wiring, and LED diagnostics for guard and lock status, faults, and OSSD activity, the KLM-Z-4ST ensures efficient maintenance and reduced downtime in high-safety applications.

TECHNICAL DATA

Actuator entry positions	8
Approvals	ISO 13849-1, ISO 14119, EN62061, EN60947-5-1, UL 508
Conduit entry	M20
Head material	Stainless steel 316
Holding force (F1Max)	3000 N
Housing material	Die cast metal
Integrated LED indication	Yes
IP class	IP65
Mounting	4 x M5

Operating temperature	-25°C ... +40°C
PL	e acc. EN ISO13849-1
Rated insulation voltage	500V ac
Safety category	4
SIL	3 acc. IEC62061
Solenoid Voltage	24V dc
Vibration	IEC88-2-6, 10-55Hz + 1Hz
Withstand voltage	1000V ac



