

Control / Solenoid  
24V AC/DC / 24V AC/DC  
110V AC / 110V AC  
230V AC / 230V AC

Part N°  
LOK024024  
LOK110110  
LOK230230

Head Modules & Actuators  
Adaptors  
Electrical Switching/Locking  
Option Pods

» Solenoid Controlled Lock Body **LOK**



### Solenoid Controlled Lock Body

Energing the solenoid breaks the dual safety circuits to shut down the motive power to the machine

- Ideal for machines with run-down cycles
- LED indicators for status identification
- Solenoid override facility for increased safety in the event of a power failure
- Split voltage available on request
- To be used with safety relay and/or safety PLC control systems
- European, Canadian and North American approvals

### Functional Safety Data

B10d	5.000.000
MTTFd	high > 385 years (31.250)
CCF	90%
PFHd [1/h]	3,65E-09
DC	High 99% (with correct monitoring of both channel and opposite mode monitoring switch)

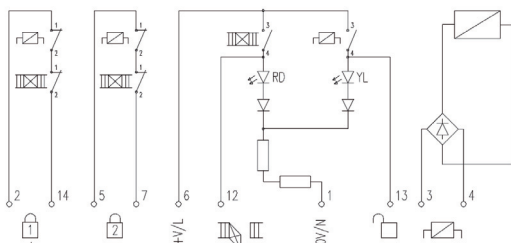
### amGard range

amGard is a modular, heavy duty, control interlocking range that provides both safety and security. amGard incorporates dual channel safety circuits to allow cross monitoring. A variety of actuators and adaptable mounting arrangements results in a long life cycle and minimum downtime. Suitable for use in applications up to SIL3 (EN/IEC 62061), Category 4 and PLe (EN/ISO 13849-1), amGard is ideal for use in harsh environments and is tested to 1,000,000 operations.

### Technical Specification

Housing Materials	Zinc Alloy to BSEN12844
Paint Finishes	Gloss Powder Coat on Passivated Base Material
Ingress Protection	IP67
Mechanical Life	>1,000,000 Switching Cycles
Maximum Frequency of Ops	7,200 per hour
Ambient Temperature	-5°C to + 40°C (23°F to 104°F)
Switches Conformance	DIN VDE 0060 Part 206 & IEC 947-5-1
Switching Contact Element	2NC and 2NO
Safety Circuit Switching Principal	Positive Break
Maximum Switch Current	3A
Maximum Switching Voltage	230V AC Max
Isolating Distance	2 x 2mm Per Switch Element
Element Contact Material	90% Silver and 10% Nickel
Utilisation Category	AC 15 or DC 13
Control Voltages	24V ac/dc, 110V ac, 230V ac
Insulating Resistance	20M Ohm
Insulating Voltage	2500V AC
Solenoid Power Rating	12W (Solenoid current at Nominal 24V dc = 500mA. Quasient current = 350mA)
Solenoid Rating (Duty Cycle)	100%
Solenoid Voltage	24V ac/dc, 110V ac, 230V ac
Solenoid Voltage Tolerance	90% to 110% of nominal

### Wiring Diagram



### Modular Arrangement

The modular arrangement of the amGard range allows to select and configure products. The following items can be used in conjunction with the Solenoid Controlled Lock Body:

Head Module Options	Part N°
Handle Actuator and Head	AM
Tongue Actuator and Head	AT
Slidebars	SBN, SBS, SBI
Adaptors & Foot	Part N°
Safety Key Adaptor(s) *	S1 » S5
Access Key Adaptor(s) *	A1 » A5
Single Lock-Out Padlock Adaptor	LO
Dual Lock-Out Padlock Adaptor	LT
Option PODs	Part N°
Key Switch Option POD *	PODK
Indicator Lamp Option POD	PODL
Pushbutton Option POD	PODB

\* Keys and lock types must be specified separately

### Dimensional Drawing

