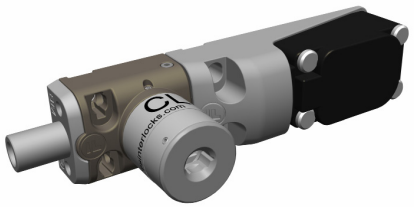
Power and Control Isolation
Key Exchange
Door Locks and Actuators

» Bolt Interlock with Limit Switch

BML
BMSL

switch approval



Bolt Interlock with Limit Switch

This device is used to interlock circuit breakers, valves, earth switches etc. It additionally provides electrical indication of the bolt position

- No product handing issues
- 16mm diameter bolt with 16mm of travel standard (extended bolt lengths available)
- Standard operation: Key free, bolt shot (other sequences available)
- Standard IP65 switch

These products may not be used as an access lock

Safety Data

Standards	EN60947-5-1:2007 ISO EN14119:2013 EN13849-1:2008 EN13849-2:2012 EN62061:2005	
Certifications	CE marked for all applicable directives	
Category	Cat. 4, PLe (EN/ISO 13849-1) and SIL3 (EN/IEC 62061)	
Functional safety data	B10d	5,000,000
	DC	High 99% (with correct monitoring)

mGard range

mGard is the ultimate range of robust mechanical trapped key products. Trapped key technology offers purely mechanical access locks (removing the need for expensive wiring). mGard offers an extensive variety of modular interlocking solutions. Suitable for use in applications up to SIL3 (EN/IEC 62061),Category 4 and PLe (EN/ISO 13849-1), mGard is ideal for use in harsh environments and is tested to 1,000,000 operations.

Technical Specification

Housing Materials Body BML	Die-cast zinc body with pearl bronze plated finish
Housing Materials Body BMSL	Full stainless steel to S316
Bolt	Full stainless steel to S316
Internals	Full stainless steel
Max Side Load	10KN (Depending on fixings used)
Lock Mechanism	Full stainless steel (selected seperatly)
Key	Stainless steel to S316 (purchased separately)
Ingress Protection	IP65
Minimum Operating Current	5mA at 20v

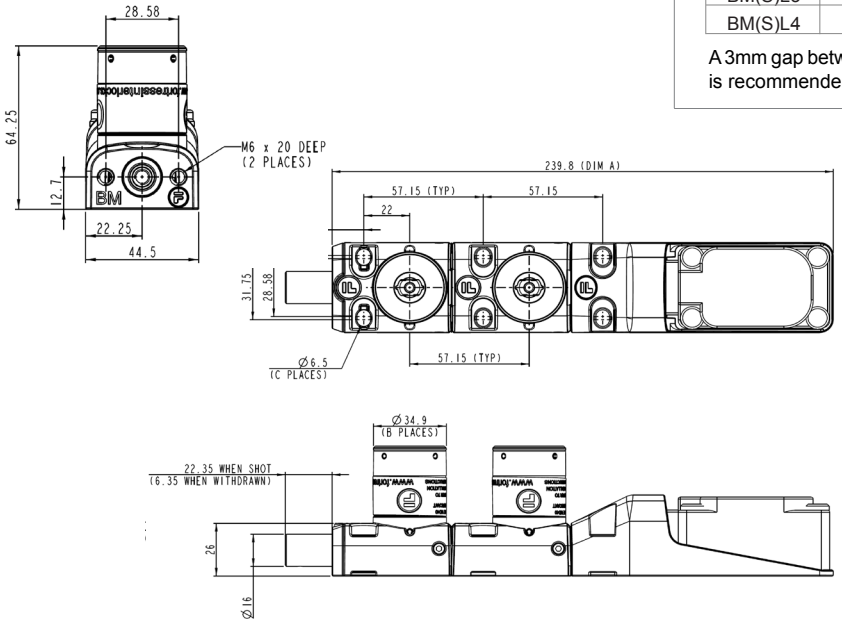
Article Codes

N° of Locks	Part N°
1 » 4	BML1 » BML4
N° of Locks (Full Stainless Steel)	**Part N°**
1 » 4	BMSL1 » BMSL4
Switch Current	**Part N°**
10A	-
Switch Contacts	**Part N°**
2NC/1N0	-
Lock Type	
Key and lock types must be specified seperatly	
Bolt Lengths (Minimum Projection)	**Part N°**
6.35mm	-
50mm	50
150mm	150

Product	Dimension A Overall length	Dimension B N° of CL Locks	Dimension C N° of Slotted holes
BM(S)L1	182.65	1	4
BM(S)L2	239.80	2	6
BM(S)L3	296.95	3	8
BM(S)L4	354.10	4	10

A 3mm gap between the front face of a BML/BMSL and any galvanised metal work is recommended to reduce the likeliness of a galvanic reaction occuring.

Dimensional Drawing



BM(S)L WIRING DETAILS

SEQUENCE	PRIMARY KEY POSITION	BOLT POSITION	SWITCH CONTACTS	
			2 N/C	1 N/O
			TERMINAL NO. 21 - 22 31 - 32	TERMINAL NO. 13 - 14
A	FREE	SHOT	OPEN	CLOSED
A	TRAPPED	WITHDRAWN	CLOSED	OPEN
B	FREE	SHOT	CLOSED	OPEN
B	TRAPPED	WITHDRAWN	OPEN	CLOSED
C	FREE	WITHDRAWN	CLOSED	OPEN
C	TRAPPED	SHOT	OPEN	CLOSED
D	FREE	WITHDRAWN	OPEN	CLOSED
D	TRAPPED	SHOT	CLOSED	OPEN

NOTE:- PRIMARY KEY OPERATES BOLT & SWITCH TOGETHER