

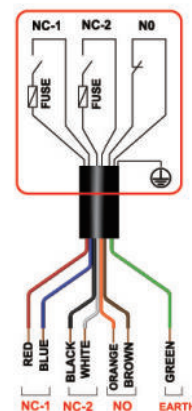
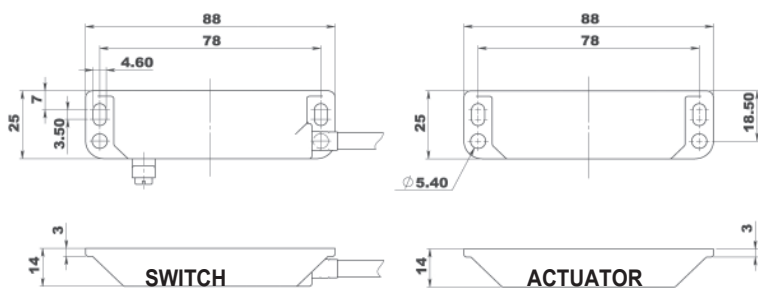
# Explosion Proof Non Contact Safet

## LM-Ex STAINLESS STEEL 316

II 2G Ex mb IIC T6 Gb

II 2D Ex mb IIIC T80 Db IP67\*

Zones 1, 21, 2, 22 Gas and Dust



SALES NUMBER	TYPE ZONES 1,21,2,22	BODY HOUSING	CABLE LENGTH 6mm OD	CIRCUITS	ELECTRICAL RATING NORMALLY CLOSED CIRCUITS (Actuator Present)		ELECTRICAL RATING NORMALLY OPEN CIRCUITS (Actuator Present)	
					RED/BLUE	NC1	ORANGE/BROWN	NO
904101	LM-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc	0.6A Max.	230Vac/24Vdc	
904102	LM-Ex	S/Steel	10M	2NC 1NO	INTERNALLY FUSED		200mA. Max.	

\*Product is fully encapsulated which is considered to provide ingress protection to at least IP67.



### SUMMARY SPECIFICATION AND SELECTION GUIDE:

SWITCH TYPE	HOUSING MATERIAL	PART NUMBER SERIES	MAXIMUM CURRENT	ZONES
WM1-Ex	Stainless Steel 316 and fitted with Stainless Steel Flexible Conduit	9001.....	0.6A	Zone 0 Gas Zone 20 Dust  (An area where Gas and Dust are continuously present)
WM2-Ex	Stainless Steel 316	9002.....	2.0A	Zone 1 Gas Zone 21 Dust Zone 2 Gas Zone 22 Dust  (An area where Gas and Dust is likely to occur in use)
CM1-Ex	Stainless Steel 316	901.....	2.0A	
CM2-Ex	Stainless Steel 316	902.....	1.0A / 0.6A	
CM3-Ex	Stainless Steel 316	903.....	0.6A	
LM-Ex	Stainless Steel 316	904.....	0.6A	
RM-Ex	Stainless Steel 316	905.....	0.6A	

### TECHNICAL AND SAFETY SPECIFICATIONS:

**Standards:** IEC/EN60079-0 IEC/EN60079-18  
ISO14119 EN60947-5-3 EN60204-1  
ISO13849-1 EN62061

#### Safety Classification and Reliability Data:

Mechanical Reliability B10d	3.3 x 10 <sup>8</sup> operations at 100mA load
EN954-1	Up to Category 4 with Safety Relay
ISO13849-1	Up to PLe depending upon system architecture
EN62061	Up to SIL3 depending upon system architecture
Safety Data – Annual Usage	8 cycles per hour/24 hours per day/365 days
PFHd	2.52 x 10 <sup>-8</sup>
Proof Test Interval (Life)	47 years
MTTFd	470 years
Contact Release Time	<2ms
Initial Contact Resistance	<500 milliohm
Minimum Switched Current	10Vdc 1mA

Insulation Resistance	100 Mohms
Recommended Setting Gap	5mm
Switching Distance	Sao 10mm Close
(Target to Time)	Sar 22mm Open
Approach Speed	200mm/m to 1000mm/s
Temperature Range	-20/+80 (or +60C for 2A version)
Enclosure Protection	IP67
Shock Resistance	IEC 68-2-27 11ms 30g
Vibration Resistance	IEC 68-2-6 10-55Hz 1mm
Body Material	Stainless Steel 316
Cable Type	6mm OD
Mounting Position	Any
Approval Body	BASEEFA UK