

Explosion Proof Non Contact Safety Interlock Switches



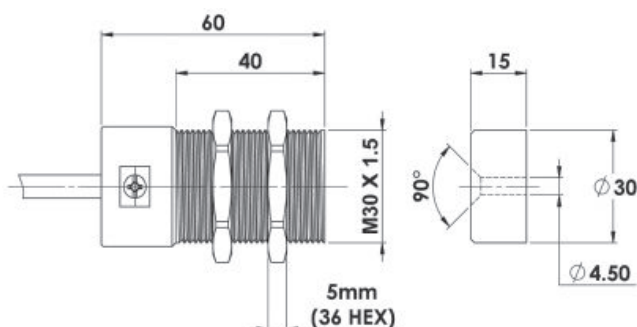
RM-Ex STAINLESS STEEL 316 M30 x 1.5mm threaded body

II 2G Ex mb IIC T6 Gb

II 2D Ex mb IIIC T80 Db IP67*

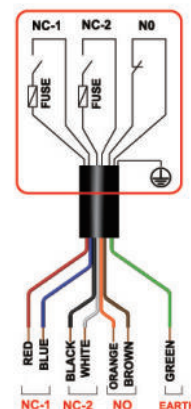
Zones 1, 21, 2, 22 Gas and Dust

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SWITCH

ACTUATOR



SALES NUMBER	TYPE ZONES 1,21,2,22	BODY HOUSING	CABLE LENGTH 6mm OD	CIRCUITS	ELECTRICAL RATING NORMALLY CLOSED CIRCUITS (Actuator Present) RED/BLUE NC1 WHITE/BLACK NC2	ELECTRICAL RATING NORMALLY OPEN CIRCUITS (Actuator Present) ORANGE/BROWN NO
905101	RM-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 0.6A Max.	230Vac/24Vdc
905102	RM-Ex	S/Steel	10M	2NC 1NO	INTERNALLY FUSED	200mA. Max.

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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 10⁶ 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 10⁻⁸
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
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

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