

# Explosion Proof Non Contact Safety Interlock Switches

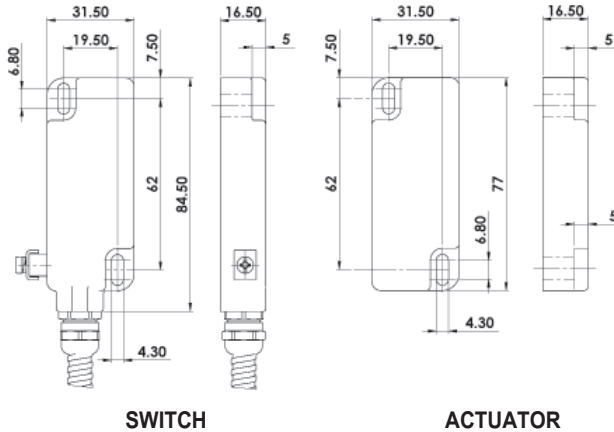


## WM1-Ex STAINLESS STEEL 316 (supplied fitted with Stainless Steel Flexible Conduit)

**Ex** II 1G Ex ma IIC T6 Ga

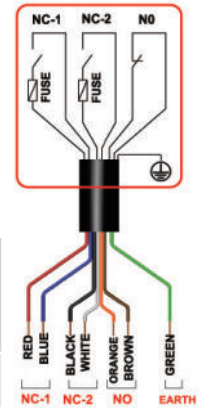
**Ex** II ID Ex ma IIIC T80 Da IP67\*

Zones 0, 20, 1, 21, 2, 22 Gas and Dust



SWITCH

ACTUATOR



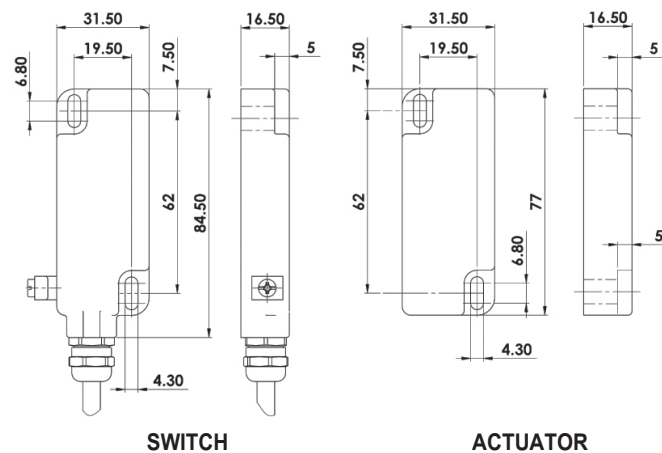
SALES NUMBER	TYPE ZONES 0,20	BODY HOUSING	CABLE/ CONDUIT LENGTH 10mm OD	CIRCUITS	ELECTRICAL RATING	
					NORMALLY CLOSED CIRCUITS (Actuator Present) RED/BLUE NC1 WHITE/BLACK NC2	NORMALLY OPEN CIRCUIT (Actuator Present) ORANGE/BROWN NO
900101	WM1-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 0.6A Max.	230Vac/24Vdc
900102	WM1-Ex	S/Steel	10M	2NC 1NO	INTERNALLY FUSED	200mA. Max.

## WM2-Ex STAINLESS STEEL 316

**Ex** II 2G Ex mb IIC T6 Gb

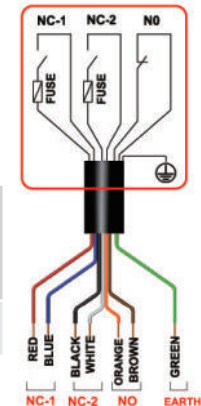
**Ex** II 2D Ex mb IIIC T80 Db IP67\*

Zones 1, 21, 2, 22 Gas and Dust



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	NORMALLY OPEN CIRCUITS (Actuator Present) ORANGE/BROWN NO
900201	WM2-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 2A Max.	230Vac/24Vdc
900202	WM2-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.

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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 ISO13849-1  
Safety Data – Annual Usage  
Contact Release Time  
Initial Contact Resistance  
Minimum Switched Current  
Insulation Resistance  
Recommended Setting Gap

3.3 x 10<sup>6</sup> operations at 100mA load  
Up to PLe depending upon system architecture  
8 cycles per hour/24 hours per day/365 days  
MTTFd 470 years  
<2ms  
<500 milliohm  
10Vdc 1mA  
100 Mohms  
5mm

Switching Distance (Target to Time)  
Approach Speed  
Temperature Range  
Enclosure Protection  
Shock Resistance  
Vibration Resistance  
Body Material  
Cable Type  
Mounting Position  
Approval Body

Sao 10mm Close  
Sar 22mm Open  
200mm/m to 1000mm/s  
-20/+80 (or +60C for 2A version)  
IP67  
IEC 68-2-27 11ms 30g  
IEC 68-2-6 10-55Hz 1mm  
Stainless Steel 316  
6mm OD  
Any  
BASEEFA UK

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