

Explosion Proof Non Contact Safety Interlock Switches

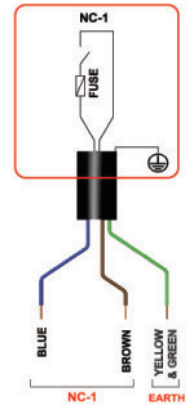
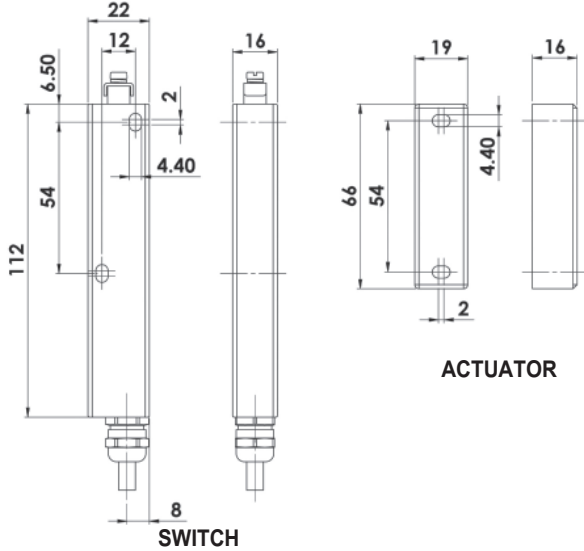


CM1-Ex STAINLESS STEEL 316

II 2G Ex mb IIC T6 Gb

II 2D Ex mb IIIC T80 Db IP67*

Zones 1, 21, 2, 22 Gas and Dust



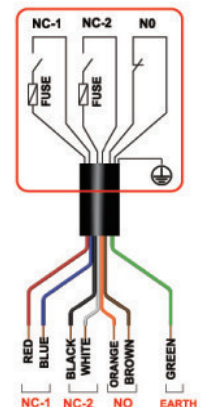
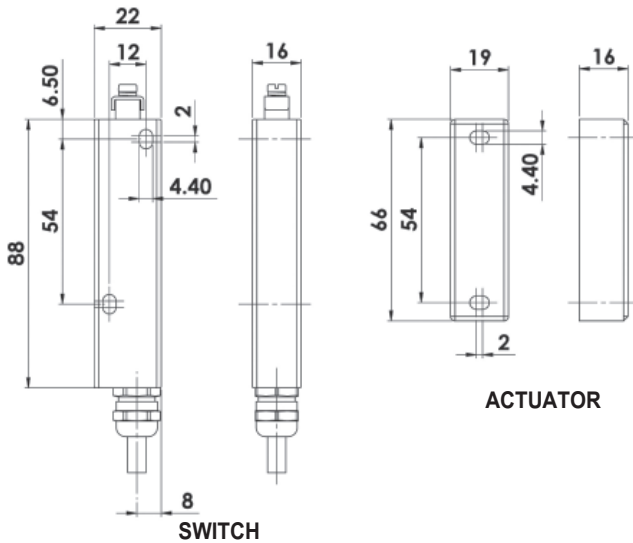
SALES NUMBER	TYPE ZONES 1,21,2,22	BODY HOUSING	CABLE LENGTH 6mm OD	CIRCUITS	ELECTRICAL RATING NORMALLY CLOSED CIRCUITS (Actuator Present) NC
901101	CM1-Ex	S/Steel	5M	1NC	230Vac/24Vdc 2A Max.
901102	CM1-Ex	S/Steel	10M	1NC	INTERNALLY FUSED

CM2-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) NC	ELECTRICAL RATING NORMALLY OPEN CIRCUITS (Actuator Present) NO
902103	CM2-Ex	S/Steel	5M	1NC	230Vac/24Vdc 1A Max.	
902104	CM2-Ex	S/Steel	10M	1NC	INTERNALLY FUSED	
902105	CM2-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 0.6A Max.	230Vac/24Vdc
902106	CM2-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.

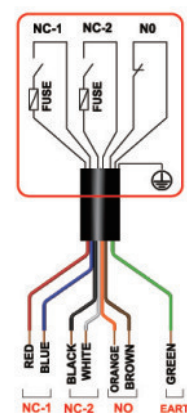
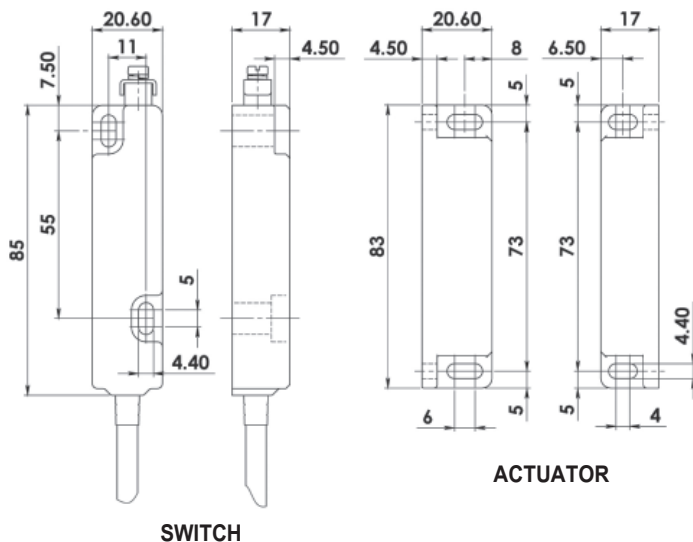
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CM3-Ex STAINLESS STEEL 316

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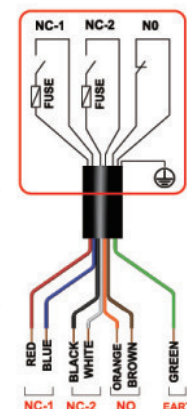
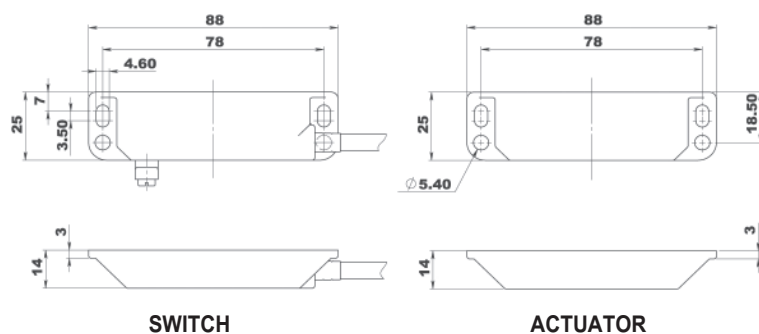
SALES NUMBER	TYPE ZONES 1,21,2,22	BODY HOUSING	CABLE LENGTH 6mm OD	CIRCUITS	ELECTRICAL RATING	
					NORMALLY CLOSED CIRCUITS (Actuator Present) NC	NORMALLY OPEN CIRCUITS (Actuator Present) NO
903101	CM3-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 0.6A Max.	230Vac/24Vdc
903102	CM3-Ex	S/Steel	10M	2NC 1NO	INTERNALLY FUSED	200mA. Max.

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) RED/BLUE NC1 WHITE/BLACK NC2	NORMALLY OPEN CIRCUITS (Actuator Present) 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.

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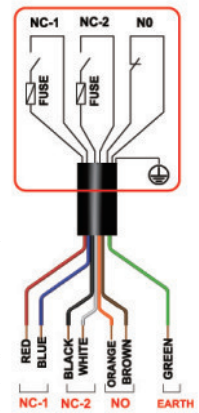
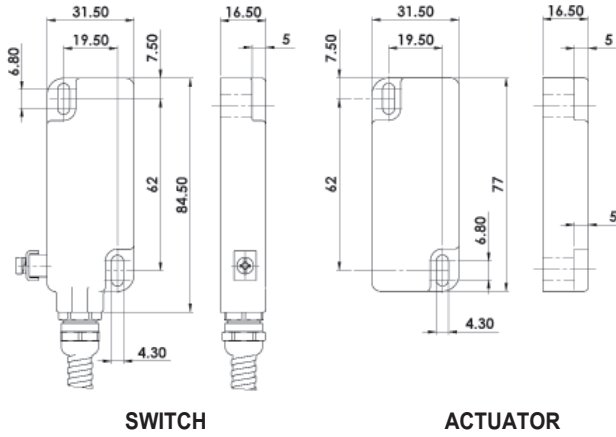


WM1-Ex STAINLESS STEEL 316 (supplied fitted with Stainless Steel Flexible Conduit)

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



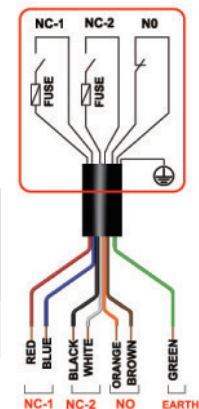
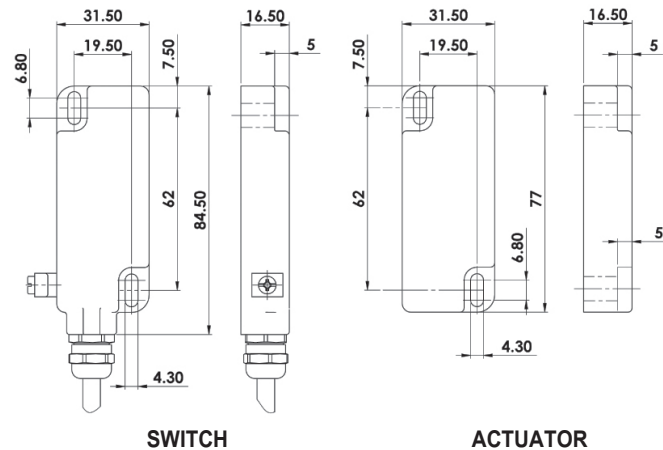
SALES NUMBER	TYPE ZONES	BODY HOUSING	CABLE/ CONDUIT LENGTH	CIRCUITS	ELECTRICAL RATING	ELECTRICAL RATING
					NORMALLY CLOSED CIRCUITS (Actuator Present)	NORMALLY OPEN CIRCUIT (Actuator Present)
900101	WM1-Ex	S/Steel	5M	2NC 1NO	230Vac/24Vdc 0.6A Max.	230Vac/24Vdc
900102	WM1-Ex	S/Steel	10M	2NC 1NO	INTERNALLY 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



SALES NUMBER	TYPE ZONES	BODY HOUSING	CABLE LENGTH	CIRCUITS	ELECTRICAL RATING	ELECTRICAL RATING
					NORMALLY CLOSED CIRCUITS (Actuator Present)	NORMALLY OPEN CIRCUITS (Actuator Present)
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.

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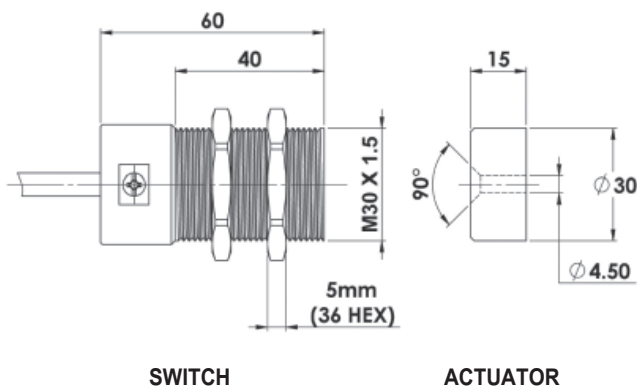


RM-Ex STAINLESS STEEL 316 M30 x 1.5mm threaded body

Ex II 2G Ex mb IIC T6 Gb

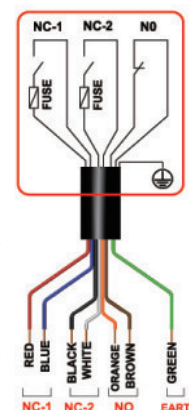
Ex II 2D Ex mb IIIC T80 Db IP67*

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)	NORMALLY OPEN CIRCUITS (Actuator Present)
905101	RM-Ex	S/Steel	5M	2NC 1NO	RED/BLUE NC1 WHITE/BLACK NC2	230Vac/24Vdc 0.6A Max.
905102	RM-Ex	S/Steel	10M	2NC 1NO	INTERNALLY FUSED	230Vac/24Vdc 200mA. Max.

Explosion Proof Non Contact Safety Interlock Switches



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 ⁶ 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
(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

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