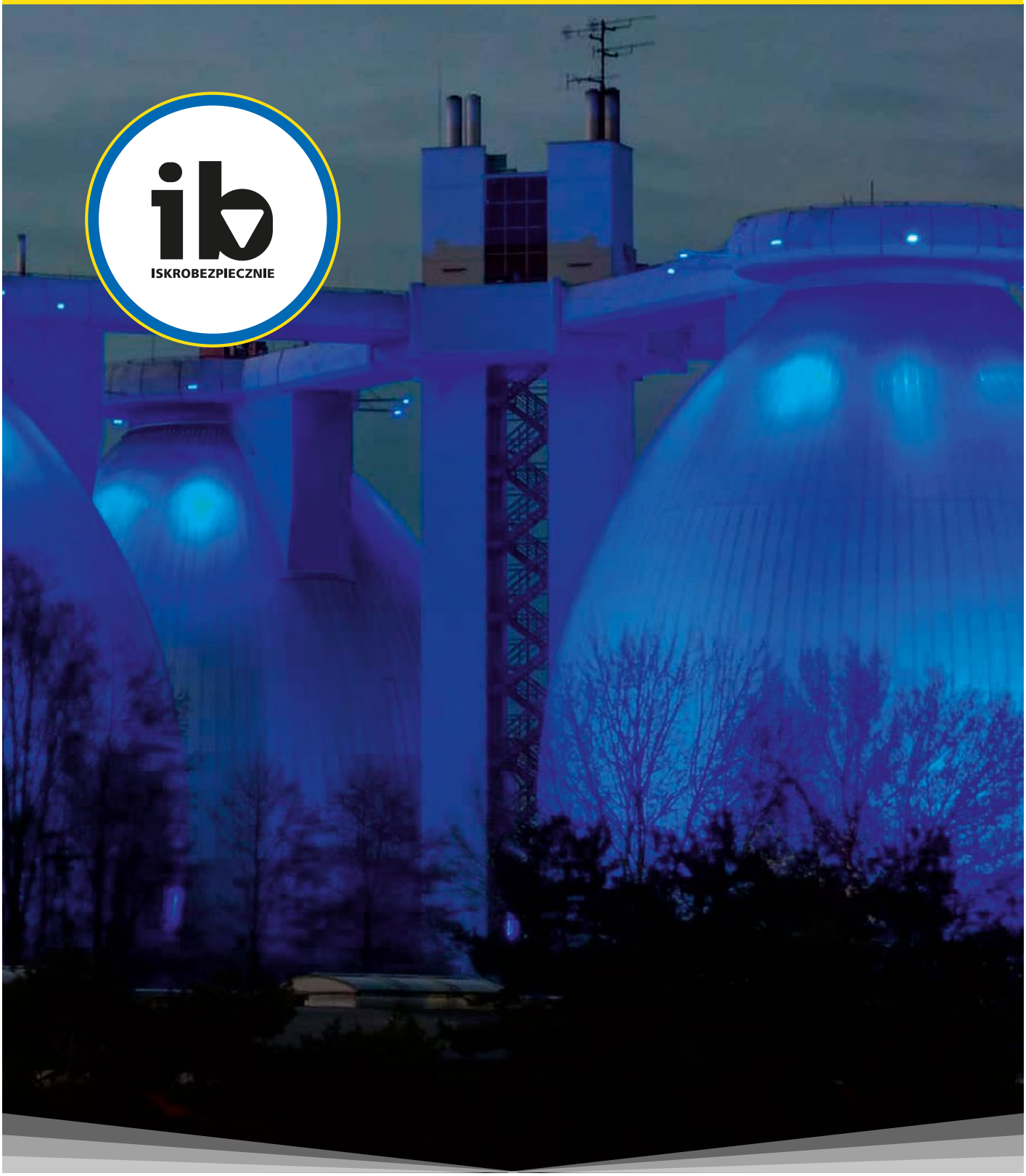
INTRINSICALLY SAFE
SAFETY SYSTEMS



Product Catalogue 2025

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ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

SecurEx Technology Limited
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Security systems

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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SX-ID-P1.. series
Intrinsically Safe Motion Detectors (PIR)

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Intrinsically safe motion detectors are intended for detecting and signalling the entry of an undesirable person to a protected object including an explosion danger zone. The SX... EX series PIR detectors have been specifically designed for use in hazardous (Ex) environments. The certified PIR Detector works with Intruder alarm and access control systems or lighting control systems to provide a highly effective solution for security monitoring or energy conservation in Ex classified hazardous areas Zones 1, 2, 21 & 22. The PIR detector comprises an enclosure made in 316 Stainless Steel where the electronic parts are situated, the boards are either encapsulated ("Ex mb") or exposed and protected by limiting circuits in the encapsulated area according to the protection concept intrinsic safety. The connections to the external circuits are through approved "Ex eb" block terminals. Therefore, the PIR detector is designed for areas with explosive atmospheres Group II (IIC, IIB or IIA), Zone 1, EPL Gb and temperature class T4

Classification	**II 2 G Ex e ib mb IIC T6/5 Gb,** **II 2 D Ex e ib mb IIIC T85/100 Db**
ATEX certificates	**ExVeritas 21UKEX0786X**

Product range

- SX-ID-P1210XA SX EX: PIR, AC inline contact
- SX-ID-P1310XA SX EX: PIR, DC isolated contact (CCTV)
- SX-ID-P1410XA SX EX: PIR, AC isolated contact
- SX-ID-P111XXA SX EX: PIR, G3 alarm single sensor
- SX-ID-P112XXA SX EX: PIR, G3 double sensor

Main characteristics

Nominal input	110V to 230V AC 9V to 36V DC
Alarm output	simple L+N+E Input & Output connections channel 1 – Tamper, Motion, Fault channel 2 – Tamper, Motion, Fault
Optical sensor	quad element, thermally stabilized sensor high gain Fresnel optics provide true volumetric coverage of the detection area
Detection range	15m nominal @ 100° viewing angle
Enclosure material	316 Stainless Steel or Painted Marine Grade Aluminum
Environmental conditions	from -30°C to +40/60°C
Protection level	IP65/66
Dimensions	176 mm × 88 mm × 70 mm

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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SX-ID-P2.. series
Intrinsically Safe Contactrons

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Intrinsically safe magnetic contactors for explosive danger areas. Signaling of an intrder entering restricted area including an explosion danger zone. To power up the device and to transmit the signal a certified isolation amplifie is needed. Each contact set comprises of a robust, fully potted, certified magnetically actuated read switch assembly with matching coded magnet which has been designed for easy alignment on site. Being fully potted all contacts are inherently resistant to tampering. However, Anti Tamper mounts are provided as standard with both the Grade 2 SEOL & Grade 3 TEOL versions and Magnetic Anti Tamper is also provided in the Grade 3 product. The small-footprint contact assembly also incorporates an integral earth bonding point for enhanced safety. Additionally, custom EOL, SEOL & TEOL resistance values can optionally be specified to special order if required.

Classification	**II 2G Ex mb IIC T6 Gb; II 2D Ex mb IIIC T85°C Db**
ATEX certificate	**ExVeritas 18ATEX0407X**

Product range

- SX-ID-P22111C SX Ex: basic magnetic contact, 5-50 m cable
- SX-ID-P21XX1A SX Ex: graded magnetic contact, 5-25 m cable

Main characteristics

Housing material	316 stainless steel, fully encapsulated
Switching electrical characteristics	max. 0.25-0.5A max. 1.3-5W SP-CO
Tamper transmitter	yes
Connection (number of strands)	5 lines
Alarm output	NC/NO/SEOL
Environmental conditions	from -30°C to +55°C
Protection level	IP67
Dimensions (H × W × D)	contact: 90 × 25 × 20mm magnet: 80 × 10 × 20mm
Operation life cycles	>10^6 operations (electrical)

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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SX-LS-P7XXX1A SX EX
Intrinsically Safe Electromagnetic Locks

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Intrinsically safe SX EX Electromagnetic Lock also known as the SX EX Maglock is a member of a SX product family, which has been specifically designed for use in harsh hazardous (Ex) environments. This unique certified device works with external ACU systems to provide a highly effective security solution for access control in Ex classified hazardous areas Zones 1, 2, 21 & 22.

Classification	**II 2G Ex mb IIC T6/5 Gb** **II 2D Ex mb IIIC T85/100°C Db**
ATEX certificate	ExVeritas 17ATEX0289X

Main characteristics

Housing material	A4 stainless steel
Ambient temperature	from –40 °C to +45 °C (T6)
Ideal maximum holding force	~550 kgf. (5500N)
Power requirements	$12V_{DC}$ (13.2 V_{max} 1A Fused) $24V_{DC}$ (26.4 V_{max} 0.5A Fused)
Switching system	SPCO Contact [S0] – STDFS
Dimensions (H × W × D)	lock: 40 × 62 × 265 mm magnet: 18 × 62 × 265 mm
Protection level	IP67

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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SX-AC-P10111A SX EX

Intrinsically Safe Emergency Exit Break Glass Call Point

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Intrinsically safe SX EX Emergency Exit Break Glass Call Point is a member of a SX product family, which has been specifically designed for use in harsh hazardous (Ex) environments. The SX EX Emergency Exit Break glass is a DPCO type unit manufactured from UV stable glass reinforced polyester and finished in green in accordance with BS 7273-4:2015 Code of Practice for the Operation of Fire Protection Measures – Part 4. The Break Glass Call Point, which is also available in a range of other RAL colours, is approved for Zone 1, 2, 21 and 22 hazardous areas for use in access control and fire and gas alarm systems.

Classification	**II 2G Ex e d IIC T6 Gb; II 2D Ex t IIIC T60°C Db**
ATEX certificate	SIRA 09ATEX3286X Issue 2

Main characteristics

Housing material	Ex e UV stable GRP construction
Standard colour	green
Ambient temperature	from –40°C to +55°C
Switch type	DPCO positive break NC/NO changeover contacts
Switching power	250 V_{AC} / 5 A or 50V_{DC} / 1.0 A max
Power requirements	12V_{DC} / 75 mA monitoring
Dimensions (H × W × D)	126 × 120 × 79 mm
Protection level	IP66

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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SX-AC-P10201A SX EX
Intrinsically Safe Rex Push Button

INTRINSICALLY SAFE
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Intrinsically safe SX EX REX Push Button is a member of a SX product family, which has been specifically designed for use in harsh hazardous (Ex) environments. This unique certified device works with external ACU systems to provide a highly effective security solution for access control in Ex classified hazardous areas and is approved for Zone 1, 2, 21 and 22 hazardous areas for use in access control and fire and gas alarm systems.
The standard Stainless Steel finished GRP REX Push Button unit is a Dual Pole Changeover (DPCO) unit manufactured from UV stable glass reinforced polyester resin. The switch unit is manufactured in grey GRP with a green request to exit button in accordance with BS 7273-4:2015 Code of Practice for the Operation of Fire Protection Measures – Part 4. The REX Push Button is finished with 316L Stainless Steel Protective Cover with 'Press to Exit' duty label.

Classification	**II 2G Ex de IIC T6 Gb; II 2D Ex tb IIIC T80 °C Db IP66** **IECEx Ex de IIC T6 Gb; Ex tb IIIC, T95 °C, T130 °C Db**
ATEX certificate	PTB 10 ATEX 1018 IECEx PTB 12.0029

Main characteristics

Housing material	316L stainless steel plus Ex e UV stable GRP switch unit
Ambient temperature	from –40 °C to +55 °C (T5/T6)
Power requirements	$12V_{DC}$ / 75 mA monitoring
Switching system	1 x NO & 1 x NC fitted I_e / U_e = 400V / 4A
Dimensions (H × W × D)	94 × 84 × 90 mm
Protection level	IP66

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
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SX-AC-P20..A SX EX series
Intrinsically Safe Access Cards Readers

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Intrinsically safe SX-AC-P20..A SX EX series proximity access card readers has been specifically designed for use in hazardous (Ex) environments. Robustly constructed and reliable, readers work with external ACU door controller systems to provide a highly effective solution for door status monitoring / access control in Ex classified hazardous areas.

Classification	**II 2G Ex d IIC T6…3;** **II 2(1) GD Ex d [ia /ib IIA or IIB or IIC Ga]** **IIC T6…T3 II; 2 D Ex tb IIIC T85°C…T200** **II 2 D Ex tb [ia Da/ib] IIIC T85 T85°C**
ATEX certificates	INERIS13ATEX0021; IECEx INE 13.0069X

Product range

- SX-AC-P20540A SX EX RP40 SE HID reader; IP55
- SX-AC-P20545A SX EX SIGNO reader
- SX-AC-P20300A SX EX P-300H reader; IP67
- SX-AC-P20400A SX EX DELTA3 reader

Main characteristics

Proximity card reader modules	HID iCLASS SE® / multiCLASS SE® 13.56 MHz HID Signo HF 13.56 MHz / LF 125 kHz / BLE
Ambient temperature	from -35°C to 60°C
Enclosure material	marine grade, copper-free aluminium light alloy
Mounting options	surface mounting / 4× M12 bolts
Power requirements	12 V_{DC} Nominal 5.5-16 V_{DC} @ 105mA (Max)
External connection	1× M25 entry gland type 1 external earth bonding point

ISKROBEZPIECZNIE
Paweł Piasecki
office@atexcertified.eu
ph. +48 693 345 823

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EXPID 1.0
Intrinsically Safe IP Camera

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Intrinsically safe EXPID is an IP camera with a high-quality CMOS sensor with a resolution of up to 4 megapixels. The camera allows the use of two independent video streams and two compression methods H.264 or MJPEG with the possibility of setting the bandwidth from 32Kbps to 16Mbps. The day / night function, mechanical infrared filter, EXIR infrared illuminator and digital WDR and 3D DNR filters allow for obtaining a detailed image in all conditions. The camera can be powered from an external 12VDC power supply or Ethernet cable (PoE – 802.3), which reduces the cost of installation. The EXPID is engineered to withstand the harshest of environments, including those found in offshore drilling, gas & oil and dust applications.

Classification	**II 2G Ex db IIC T6 Gb** **II 2D Ex tb IIIC T85°C db** **I M2 Ex db I Mb**
ATEX certificate	KDB 16ATEX0039

Main characteristics

Image sensor	1/3'' CMOS
Image resolution	4Mpix (2688 × 1520)
Video compression	H.264 / MJPEG / H.264+
Signal system	PAL/NTSC
Day / night mode	mechanical IR filter
Rate	20 fps @ 4Mpx 25 fps @ 2Mpx (1920×1080)
Lenses	f=2.8mm (92.5° angle of view), F2.0
Sensitivity (Lux)	0.01 Lux (color) O Lux (black and white with IR illuminator on)
Camera functions	trueWDR, BLC, 3DNR, ANR
Infrared illuminator	IR range 20 to 30m EXIR
Protection class	IP66 / IP68
Dimensions	190 mm × 126 mm × 128 mm
Weight	2kg (for group II), 3.5 kg (for group I)
Power supply	$12V_{DC}$, PoE (802.3af)
Power consumption	5.5W / 7.5W with IR illuminator on – max 14W
Temperature range	-30°C s Ta s +60 °CI
Relative humidity range	0%-90% non-condensing

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Application examples

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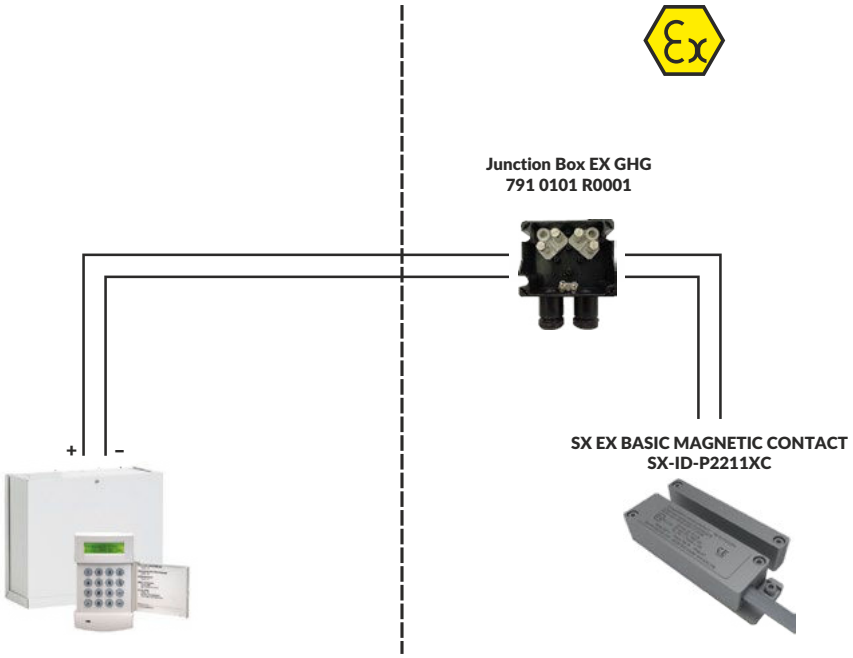
Application examples

Magnetic contact door



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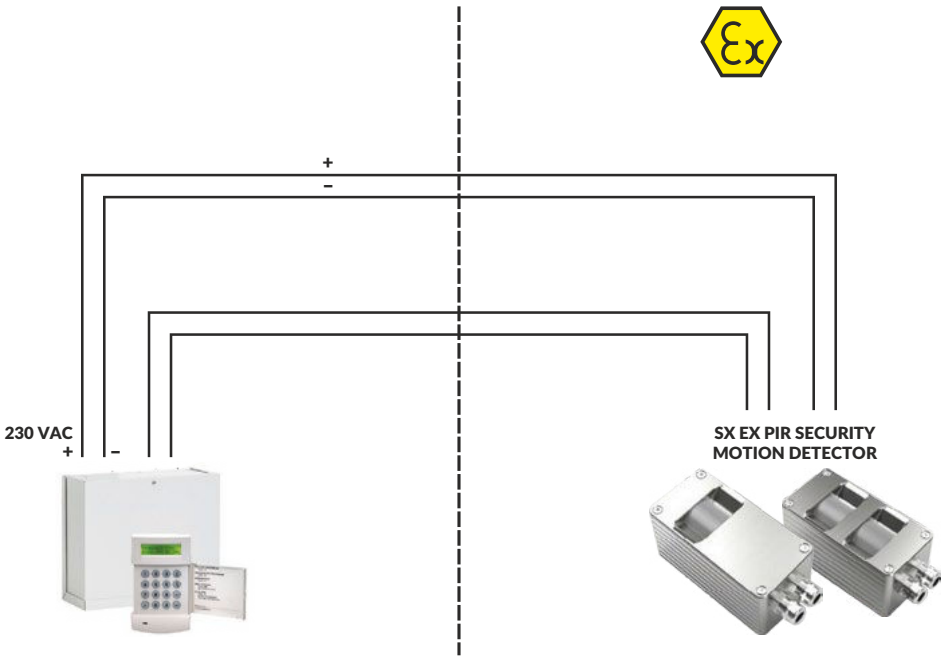

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