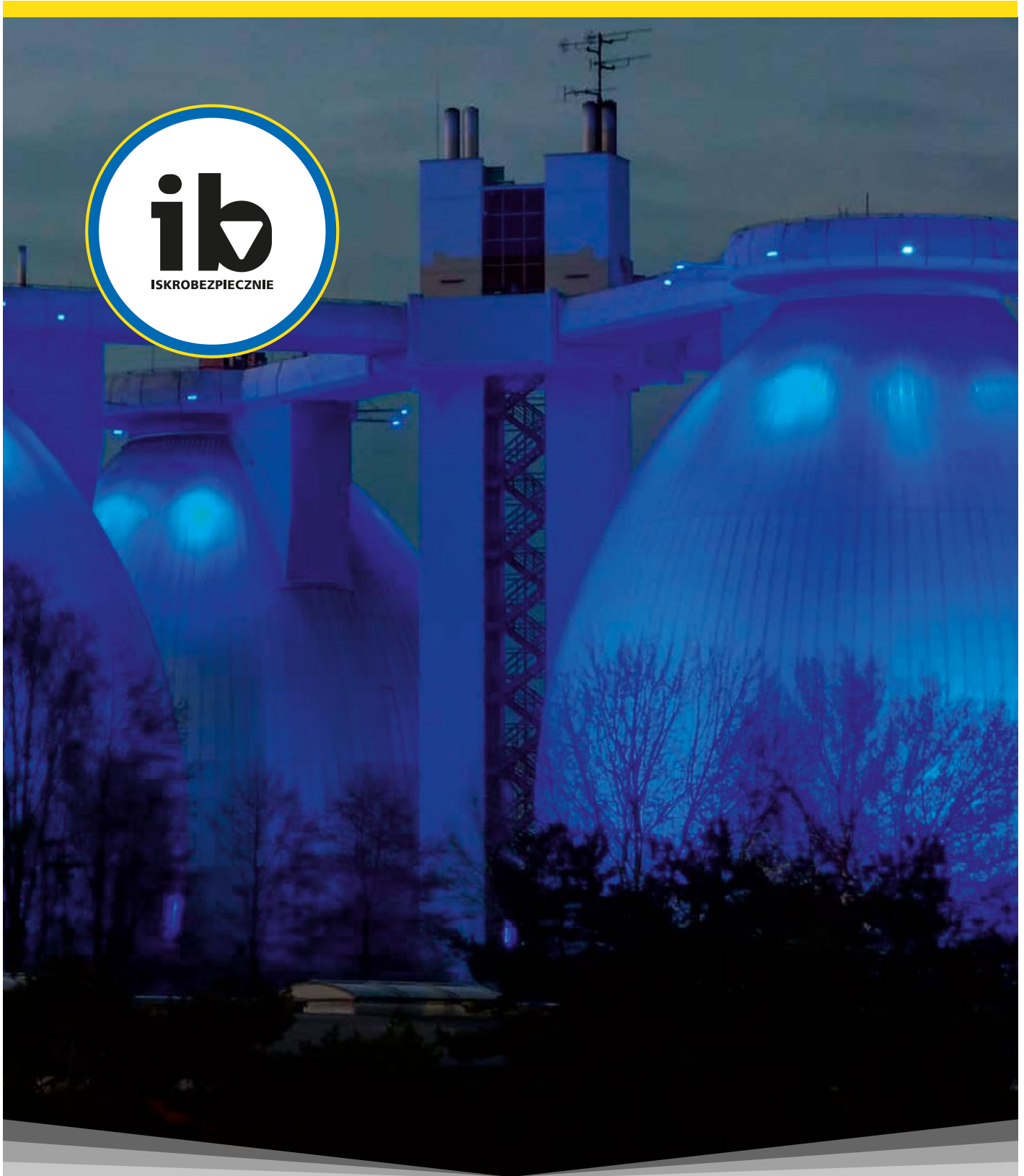


INTRINSICALLY SAFE
SAFETY SYSTEMS



Product Catalogue 2025

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Security systems

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





Intrinsically safe magnetic contactors for explosive danger areas. Signaling of an intruder entering restricted area including an explosion danger zone. To power up the device and to transmit the signal a certified isolation amplifier is needed. Each contact set comprises of a robust, fully potted, certified magnetically actuated reed 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)



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 $-40\text{ }^{\circ}\text{C}$ to $+45\text{ }^{\circ}\text{C}$ (T6)
Ideal maximum holding force	$\sim 550\text{ kgf. (5500N)}$
Power requirements	12V_{DC} ($13.2\text{ V}_{\text{max}}$, 1A Fused) 24V_{DC} ($26.4\text{ V}_{\text{max}}$, 0.5A Fused)
Switching system	SPCO Contact [S0] – STDFS
Dimensions (H × W × D)	lock: $40 \times 62 \times 265\text{ mm}$ magnet: $18 \times 62 \times 265\text{ mm}$
Protection level	IP67



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 $+55^{\circ}\text{C}$
Switch type	DPCO positive break NC/NO changeover contacts
Switching power	$250\text{V}_{\text{AC}} / 5\text{A}$ or $50\text{V}_{\text{DC}} / 1.0\text{A}$ max
Power requirements	$12\text{V}_{\text{DC}} / 75\text{mA}$ monitoring
Dimensions (H × W × D)	$126 \times 120 \times 79\text{mm}$
Protection level	IP66



SX-AC-P10201A SX EX

Intrinsically Safe Rex Push Button

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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



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
from -35°C to 60°C

Ambient temperature

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



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)
0 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 ≤ Ta ≤ +60 °C

Relative humidity range

0%-90% non-condensing

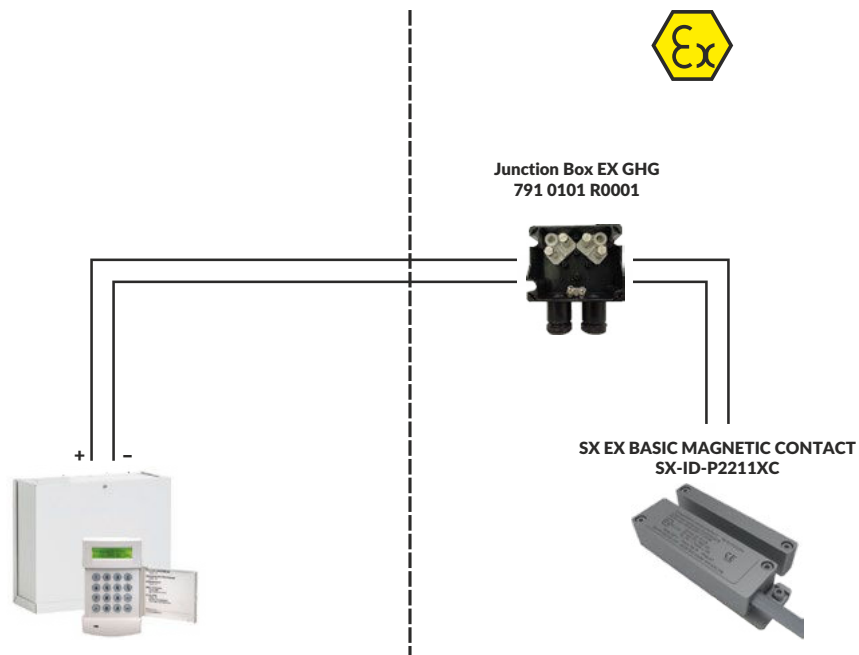




Application examples



Magnetic contact door



PiR

