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PRODUCT CATALOG



EXPLOSION PROOF EQUIPMENT

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INTRINSIC SAFETY BARRIER FOR LOOPS «BISCH»



An intrinsic safety barrier for loops, «BISCH», is designed to ensure intrinsic safety of one fire or one alarm system loop with fire or security detectors connected into it. The barrier is graded as associated apparatus installed outside hazardous areas.

Explosion-proof marking **[Exia]IIC/IIB**.
Ingress protection rating **IP54**.

A cable gland enables a connection of a cable \varnothing 6-14mm.

«BISCH» is a passive barrier.

Product dimensions: **120x151x67mm**.



EXPLOSION-PROOF MAGNETIC CONTACT ADDRESSABLE SECURITY DETECTOR Ex IO102 MK



Ex IO 102 MK detector is designed to monitor the positions of substructures and mechanisms, building elements and structural systems for opening or displacement, which are made of magnetic (steel and alloys) or non-magnetic materials (wood, plastic, aluminum).

Detector housing material:
N–stainless steel
Al–aluminum alloy.



Explosion-proof marking:
1Ex d IIC T6 Gb (housing -aluminum alloy)
1Ex d IIC T6 Gb /PB Ex d I Mb
(housing -stainless steel).

Ingress protection rating **IP66/IP68**.

Cable gland is manufactured with different types of nozzles:

K–for \varnothing 6-12mm cable laying

B–for \varnothing 6-12mm armored cable laying

TG-1/2–for cable laying in tubes with coupling thread G-1/2

TG-3/4–for cable laying in tubes with coupling thread G-3/4

KM15–for \varnothing 6-12mm cable in a 15mm metal hose

KM20–for \varnothing 6-12mm cable in a 20mm metal hose.

Product dimensions: BMS unit –**97x58x37mm**; magnet unit –**100x58x37mm**.



**EXPLOSION-PROOF MAGNETIC CONTACT ADDRESSABLE
SECURITY DETECTOR
IO102-40**



IO 102-40 detector is designed to detect unauthorized opening or displacement of protected structures, made of magnetic (steel and alloys) or non-magnetic materials (wood, plastic, aluminum), followed by an alarm.

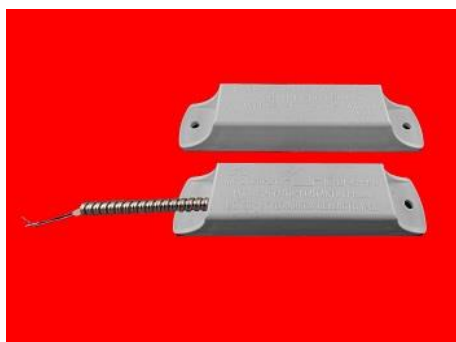
Explosion-proof marking: **0Ex ia IIB T6 Ga X.**
Ingress protection rating **IP66/IP68.**

The outlets are inserted into a metal-reinforced hose made of galvanized steel or a stainless steel hose.

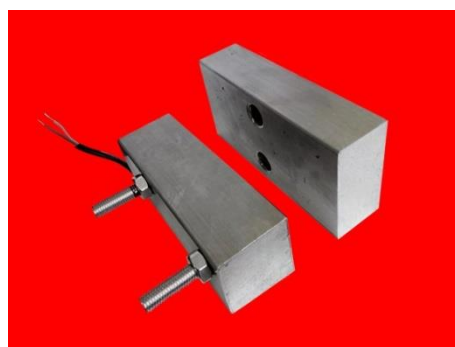
Product dimensions: BMS unit –**90x40x10.4mm**(type A housing); magnet unit **40x28.5x25mm**
BMS unit –**40x28.5x25mm**(type B housing); magnet unit **40x28.5x25mm**



**EXPLOSION-PROOF MAGNETIC CONTACT ADDRESSABLE
SECURITY DETECTOR
IO102-26/V «AJAKS»**



The detector is designed to detect unauthorized opening or displacement of protected structures, made of magnetic (steel and alloys) or non-magnetic materials (wood, plastic, aluminum), followed by an alarm transmitted to a fire alarm control panel or an external terminal of a notice transmission system.



Explosion-proof marking:
0Ex ia IIC T6 Ga X.

Ingress protection rating
IP66/IP68.

The detector housing is made of anti-static plastic or stainless steel.

Product dimensions:

BMS unit –**130x30x20mm**; magnet unit –**130x30x20mm** (ver.10,20,30,40)

BMS unit –**120x20x40mm**; magnet unit **120x40x40mm** (ver.210,220.230.240)

BMS unit –**150x50x50mm**; magnet unit **160x40x80mm** (ver.250,251).



EXPLOSION-PROOF MAGNETIC REED POSITION SENSOR DPMG-26Ex



DPMG-26Ex explosion-proof magnetic reed position sensor is designed for application in various operational procedures in hazardous areas to control the positions of individual moving parts and mechanisms made of magnetically conducting and non-conducting materials.

This sensor is intended for use in hazardous areas with firedamp hazard, underground working, mines and their surface structures, in accordance with explosion-proof marking.

Explosion-proof marking: **0Ex ia IIC T6 Ga/PO Exia I Ma.**

Ingress protection rating **IP66/68.**

The sensor has a cable gland and contact bolts for connection into a loop.

Working clearance: ver.40, ver.100, ver.200

Product dimensions: BMS unit –**160x55x52mm**; magnet unit –**150x70x38mm**.



EXPLOSION-PROOF MAGNETIC REED POSITION SENSOR DPM-1Ex



DPM-1Ex explosion-proof magnetic reed position sensor is designed for application in various operational procedures in hazardous areas to control the positions of individual moving parts and mechanisms made of magnetically conducting and non-conducting materials.

This sensor is intended for use in hazardous areas with firedamp hazard, underground working, mines and their surface structures, in accordance with explosion-proof marking.

Explosion-proof marking: **0Ex ia IIC T6 Ga X/PO Exia I Ma X.**

Ingress protection rating **IP68.**

Two output types are available: double-insulated cable and cable in an metal hose (stainless steel).

Overall dimensions: BMS unit –**140x20x35mm**; magnet unit –**140x24x22mm**.



EXPLOSION-PROOF MAGNETIC CONTACT INERTIA SENSOR DIMK/V



DIMK/V explosion-proof magnetic contact inertia sensors are designed to block glass fracture in glazed structures when exposed to a blow with power equal to 2/3 of that required to destroy the controlled area, and to block glazed structures against attempted dismantlement of glass or window frame, followed by an alarm signal.

Mechanically the sensor is a sealed contact and a magnet housed within one high-impact polystyrene shell with a permanent cable.

Explosion-proof marking: **0Ex ia IIC T6 Ga X.**

Ingress protection rating **IP65.** Product dimensions: **55x20x23mm.**



EXPLOSION-PROOF MANUAL FIRE ALARM IP535Ex «SEVER»



A manual fire alarm IP535Ex «SEVER» is designed for manual activation of a fire alarm.

The alarm should be connected to equipment with intrinsically safe electrical circuits and intrinsically safe parameters complying with conditions of alarm application in hazardous areas.

The alarm is intended for use in hazardous areas, where explosive mixtures of gas and vapor with air can form under operating conditions, as well as in areas where

explosive mixtures of dust and fibers with air can form under operating conditions.

Explosion-proof marking: **0Ex ia IIC T6 Ga.**

Ingress protection rating **IP66/67.**

The alarm housing can be equipped with sealing plastic cable glands and sealing MKV stainless steel glands, designed for various cable laying options.

Product dimensions: **129x141x72mm.**



MAGNETIC CONTACT MANUAL FIRE ALARM IP 535/B «SEVER»



IP 535/B «SEVER» an untargeted recoverable alarm fed by a loop, is designed for continuous operation to transmit a "FIRE" alarm notice to the fire loop when the driving element is activated at various sites with rooms with explosive atmospheres.

Explosion-proof marking **0ExiaIIC T6.**

Ingress protection rating **IP55.**

Product dimensions: **169x127x81mm.**



EXPLOSION-PROOF MANUAL FIRE ALARM PR 514-2/V «KULT»



An explosion-proof manual fire alarm IPR 514-2/V «KULT» is designed for continuous operation to transmit an alarm notice to the fire loop when the driving element is activated.

Two types of alarms are available:

with and without indicating lights.

Explosion-proof marking:

0ExiaIIC T6 X (without indicating lights)

1ExibIIB T6 X (with indicating lights)

Ingress protection rating **IP54.**

Product dimensions: **205x100x75mm.**



EXPLOSION-PROOF ADDRESSABLE RATE COMPENSATION HEAT DETECTOR IP103-55Ex



An explosion-proof addressable rate compensation heat detector IP103-55Ex is designed for continuous operation to detect fire followed by temperature rise in the enclosed compartments of various buildings and constructions.

Two detector modifications are available:

IP103-55-A1Ex

(response temperature **between 54°C and 65°C**)

IP103-55-A3Ex

(response temperature **between 64°C and 76°C**)

Explosion-proof marking: **1Ex ib IIB T6 Gb.**

Ingress protection rating **IP20.**

Product dimensions: **diameter –58mm; height –37mm.**



EXPLOSION-PROOF RATE COMPENSATION HEAT DETECTOR IP103-10/V COUPLING DEVICE US-4-Ex



A detector is designed for continuous operation to detect fire followed by temperature rise in the enclosed compartments of various buildings and constructions.

US-4-Ex coupling device is designed to connect the IP103-10/V detector to the alarm loop.

Explosion-proof marking: **1ExibIIBT6** (IP103-10/V)

Explosion-proof marking **0ExiaIICT6**(US-4).

Ingress protection rating **IP65.**

Two detector modifications are available:

IP103-10-(A1)/V (response temperature **between 54°C and 65°C**)

IP103-10-(A3)/V (response temperature **between 64°C and 76°C**)

Three modifications of the coupling device are available:

US-4 (2x4) - Number of sealed lead-ins: 4.

US-4 (4x4) - Number of sealed lead-ins: 4.

US-4 (4x4) - Number of sealed lead-ins: 2.

Detector overall dimensions: **diameter –70mm; height –27mm.**

Coupling device overall dimensions: **106x106x32mm.**



EXPLOSION-PROOF ADDRESSABLE ELECTRONIC SMOKE DETECTOR IP212-69/1Ex



A detector is designed to detect incipient fire in the enclosed compartments of buildings and constructions.

Explosion-proof marking: **1Ex ib IIB T6 Gb.**

Ingress protection rating **IP40.**

Average armed state current consumption: up to 30μA.

Current in "Fire" state: up to 20mA.

Product dimensions: **height –53mm, diameter –100mm.**



EXPLOSION-PROOF VISUAL FIRE ALARM OS-12/V «AJAKS»



OS-12/V «AJAKS» alarm is designed to warn about fire or an alert state using alarm lights. The alarm is used in outdoor areas, unheated and heated closed spaces of hazardous areas in accordance with the specified explosion-proof marking.

Explosion-proof marking **1ExibIIBT4**.

Ingress protection rating **IP66**.

Product dimensions: **157x121x50mm**.



EXPLOSION-PROOF COUPLING DEVICE USB-Ex «SEVER»



The device is designed to connect (fan out) signal cables, e.g. in fire or security and fire alarm loops, communication lines and telecommunications, circuits of control and automation systems, as well as to connect terminal equipment, e.g. signaling sensors, customer communications equipment, etc.

Explosion-proof marking **0ExiaIICT6**.

Ingress protection rating **IP55**.

Coupling device overall dimensions: **121x157x67mm**.

The device is equipped with the following number of sealing cable glands: 2, 4, 6 pcs. Cable glands of the USB-Ex «SEVER»

coupling device provide a lead-in for the connected cable with a diameter between 6 and 14mm.

Terminal blocks:

DG3



PM2



T31



LARGE-SIZE EXPLOSION-PROOF JUNCTION BOX KVSK-Ex «SEVER»



KVSK-Ex «SEVER» junction box is designed to connect (fan out) signal cables, e.g. in fire or security and fire alarm loops, communication lines and telecommunications, circuits of control and automation systems, as well as to connect terminal equipment, e.g. signaling sensors, customer communications equipment. KVSK-Ex «SEVER» junction box is manufactured in *black*.

Explosion-proof marking: **0Ex ia IIC T6 Ga**.

Ingress protection rating **IP66/IP67**.

Product dimensions: **302x180x93mm**.

Device housing may be: equipped with up to 8 plastic sealing cable glands, equipped with MKV stainless steel sealing glands, equipped with both plastic cable glands and MKV glands.

The type of terminal blocks:

Terminal blocks:

T3



PM2



The junction box is tamper-proof with sensor contacts output to a separate terminal block

EXPLOSION-PROOF CABLE GLANDS MKV SERIES

Product option may be resistant to high temperatures (up to 200°C).

Explosion-proof cable glands of MKV series are designed to connect flexible cables to explosion-proof equipment.

The manufactured glands differ in size and type of a coupling thread, and in types of the connected cables.

Explosion-proof marking:

1Ex d IIC Gb/PB Ex d I Mb/ Ex tb IIIC Db/ 0Ex ia IIC Ga/ 1Ex e IIC Gb.

Gland ingress protection rating **IP66/IP68**.

Depending on a type of the connected cable, the glands are divided into types different in structure:

- for surface cable connection,
- for pipe-type cable connection,
- for metal-hose-type cable connection,
- for wire-armored cable connection,
- for double-sealed armored cable (both inner and outer cable sheaths are sealed).



Cable glands are manufactured in accordance with Table1.

Table1.

Type	Conventional symbol	Thread, DxP, L	Width across flats, mm	Drift (outer*) Ø of a cable mm	Dimensions mm
For surface cable works	MKV G1/2K	G1/2, 20mm	27	6-12	31x72
	MKV M20K	M20x1.5,20 mm			31x72
	MKV G3/4K	G3/4, 25 mm	36	10-16	41x96
	MKV M25K	M25x1.5,25 mm			41x96
	MKV M32K	M32x1.5,30 mm	50	16-26	55x112
	MKV M40K	M40x1.5,30 mm		22-30	55x112
	MKB M50K	M50x1.5,30 mm	65	30-42	75x120
G1/2 threaded pipe	MKV G1/2T1/2	G1/2, 20 mm	27	6-12	31x113
	MKV M20T1/2	M20x1.5,20 mm			31x113
G3/4 threaded pipe	MKV G1/2T3/4	G1/2, 20 mm			31x113
	MKV M20T3/4	M20x1.5,20 mm			31x113
	MKV G3/4T3/4	G3/4, 25 mm	36	10-16	41x120
	MKV M25T3/4	M25x1.5,25 mm			41x120

G1 threaded pipe	MKV M32T1	M32x1.5,30 mm	50	16-26	55x135
G1¼ threaded pipe	MKV M40T5/4	M40x1.5,30 mm		22-30	55x138
G1½ threaded pipe	MKV M50T3/2	M50x1.5,30 mm	65	30-42	75x142
Metal hose 10mm	MKV G1/2KM10	G1/2, 20 mm	27	6-8	31x82
	MKV M20KM10	M20x1.5,20 mm			31x82
Metal hose 12mm	MKV G1/2KM12	G1/2, 20 mm		6-10	31x87
	MKV M20KM12	M20x1.5,20 mm			31x87
Metal hose 15mm	MKV G1/2KM15	G1/2, 20 mm		6-12	31x87
	MKV M20KM15	M20x1.5,20 mm			31x87
Metal hose 20mm	MKV G3/4KM20	G3/4, 25 mm	36	10-16	41x100
	MKV M25KM20	M25x1.5,25 mm			41x100
Metal hose 25mm	MKV G3/4KM25	G3/4, 25 mm	36 и 41	10-16	41x100
	MKV M25KM25	M25x1.5,25 mm			41x100
	MKV M32KM25	M32x1.5,30 mm	50	16-22	55x112
Metal hose 32mm	MKV M32KM32	M32x1.5,30 mm		16-26	55x112
	MKV M40KM32	M40x1.5,30 mm		22-26	55x115
Metal hose 38mm	MKV M50KM38	M50x1.5,30 mm	65	30-32	75x118
Armored cable. Wire armor crimper	MKV G1/2Б	G1/2, 20 mm	27	6-12 (18)	31x72
	MKV M20Б	M20x1.5,20 mm			31x72
	MKV G3/4Б	G3/4, 25 mm	36	10-16 (25)	41x96
	MKV M25Б	M25x1.5,25 mm			41x96
	MKV M32Б	M32x1.5,30 mm	50	16-26 (38)	55x112
	MKV M40Б	M40x1.5,30 mm		22-26 (44) 26-30 (44)	55x112
	MKV M50Б	M50x1.5,30 mm	65	30-36 (54) 36-42 (54)	75x120
Double sealed armored cable. Wire armor crimper.	MKV G1/2Б2	G1/2, 20 mm	27	6-10, 10-12 (18)	31x96
	MKV M20Б2	M20x1.5,20 mm			31x96
	MKV G3/4Б2	G3/4, 25 mm	36	10-12.5; 12,5-16	41x111
	MKV M25Б2	M25x1.5,25 mm			41x111
	MKV M32Б2	M32x1.5,30 mm	50	16-22; 22-26	55x126
	MKV M40Б2	M32x1.5,30 mm		22-26 (44) 26-30 (44)	55x128
	MKV M50Б2	M40x1.5,30 mm	65	30-36(54) 36-42 (54)	75x135

*the outer diameter is given only for the armored cable



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For over 20 years, the research, development, and production company Magnito-Kontakt has been in business manufacturing products used in security and fire alarm systems.

The company develops, manufactures and supplies BMS sensors.

The sensors are resistant to exposure to environment, fit for operation in a wide temperature and humidity range, and are uninfluenced by chemically active media or dust.

Sealed electrical contact provides protection in explosion-and fire-hazard environments.

The company manufactures explosion-proof equipment, and products made of anti-static materials used in potentially hazardous areas.

The catalog contains novelty, best-selling products.

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