

Technical data
MMG security technology

March 2021
MM 1006 Ex

Intrinsically safe Ex circuits
PIR detectors

MM 1006 Ex (KX15DD/Ex)

MMG intrinsically safe PIR detector

Ex II 2G Ex ib IIB T4 Gb II 2D

Ex ib IIIB T290°C Db V2

Ex

Dual PIR detector

Range 15m

Blue Wave technology (3D optics for reliable detection)

IFT technology (alarm level adapted to interference)

Auto sensitivity function Digital
temperature compensation Wall
and ceiling mount included Sealed
optics

ABS plastic cover

Recommended power supplies: 1
detector MM 2012 ..
6 detectors MM 0315 ..
25 detectors MM 3015 - 800 ..

Digital dual PIR detector, range 10m (85°, 60 zones in 7 levels), digital temperature compensation, automatic adaptation to changing ambient conditions, sealed optics, EN50131 security level 2. Blue Wave technology ensures adaptation to ambient light conditions and minimization of false alarms.

The detector is designed for use in areas with a risk of explosion of gases and vapors. Power supply must be provided from an intrinsically safe source, the alarm and tamper output contacts must be separated by a barrier - an intrinsically safe relay. With a larger number of detectors, it is possible to use one more powerful power supply with a maximum safe output voltage $U_i = 16.8$ V.



The package includes a wall and ceiling mounting stand. Detector **does not have** available integrated balancing resistors (alarm, tamper and antimasking/fault). These must be connected to the output terminals as needed. The jumpers in the detector can be used to adjust its sensitivity in three levels: automatic, high and low. PIR range (0-10m). The diode signaling movement can be turned off if necessary.

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Blue Wave technology	Yes	
Automatic sensitivity	Yes	
Sensitivity setting	Auto, High or Low Open	
Tamper protection	and tear off	
Maximum range	10m	
Detection speed	0.3- 3.0m/s	
Coverage angle	85 degrees	
Number of detection zones	60	
Number of detection levels	7	
Ceiling	Yes	
White light filter	6500 Lux	
Protection	UV filter	
Lens	3 dimensional	
Optics	Sealed optics	
Detection method	Low noise pyro element	
Wall mounting	Component holder	
Ceiling mounting	Component holder	
Optimal mounting height	1.8 - 2.4m	
Certified mounting height	2.4m	
Operating temperature	-20°C to 60°C	
Dimensions (H x W x D)	117 x 69 x 50mm	
Weight	125 g without holder	
Working voltage	9-16 V DC (13.8 V DC typical)	13 mA/12
Current consumption	V (Min), 16 mA/12 V (Max)	<10 ohms
Contact resistance		
Relay outputs	25 mA 17 VDC 100 mW	
Tamper contact	17 V 25 mA	
EN certification	EN 50131-2-2:2008, EN 50130-4:201, EN 50130-5:2011, PD 6662:2010, Ex: EN 60079-0:2018, EN 60079-11:2012 II	
Environment class		
Security level	Grade 2	
Classification	II 2G Ex ib IIB T4 Gb II 2D Ex ib IIIB T290°C Db V2	gases and vapors money explosives

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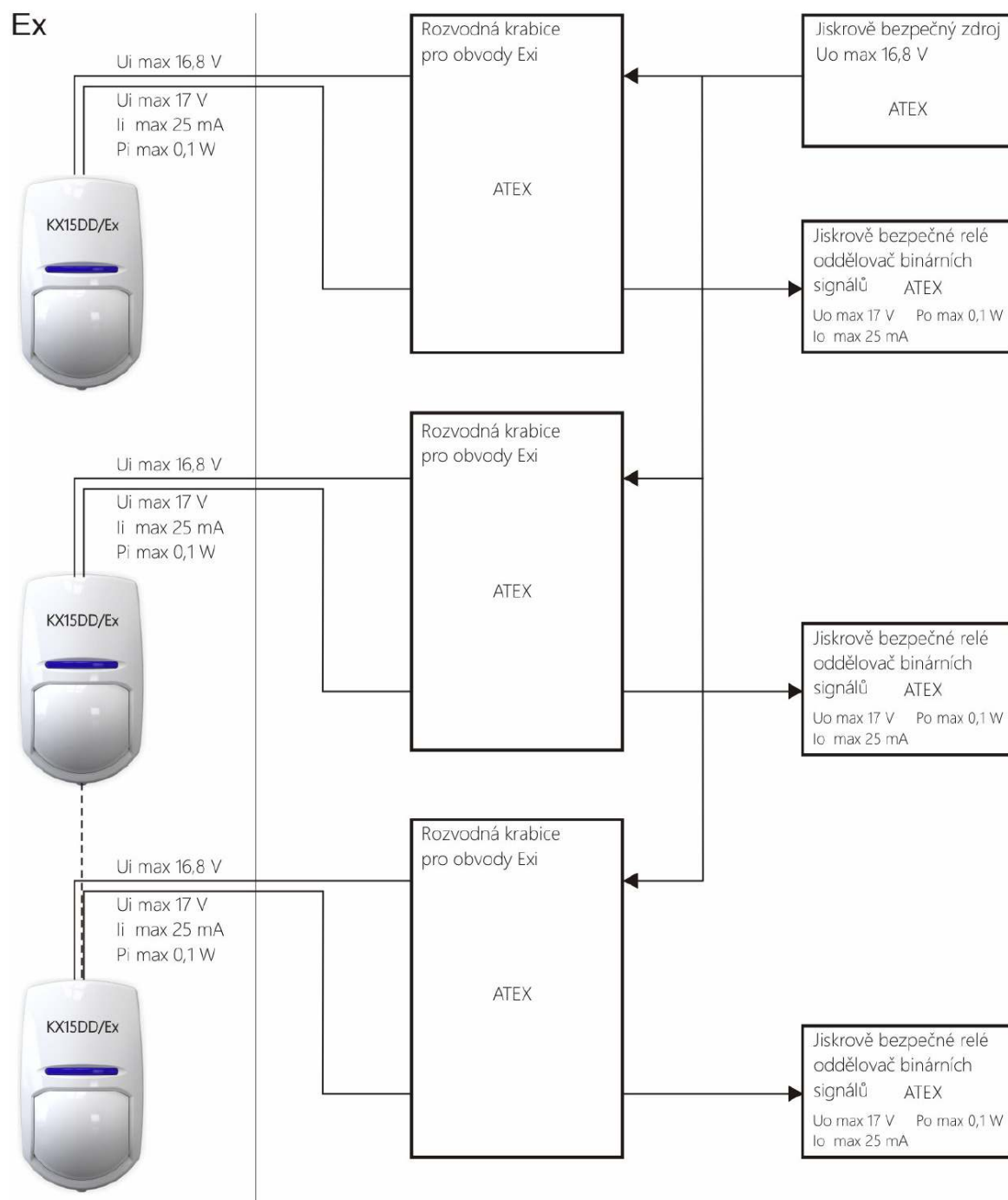


Fig. No. 1 Connection with one intrinsically safe power source and isolating relays

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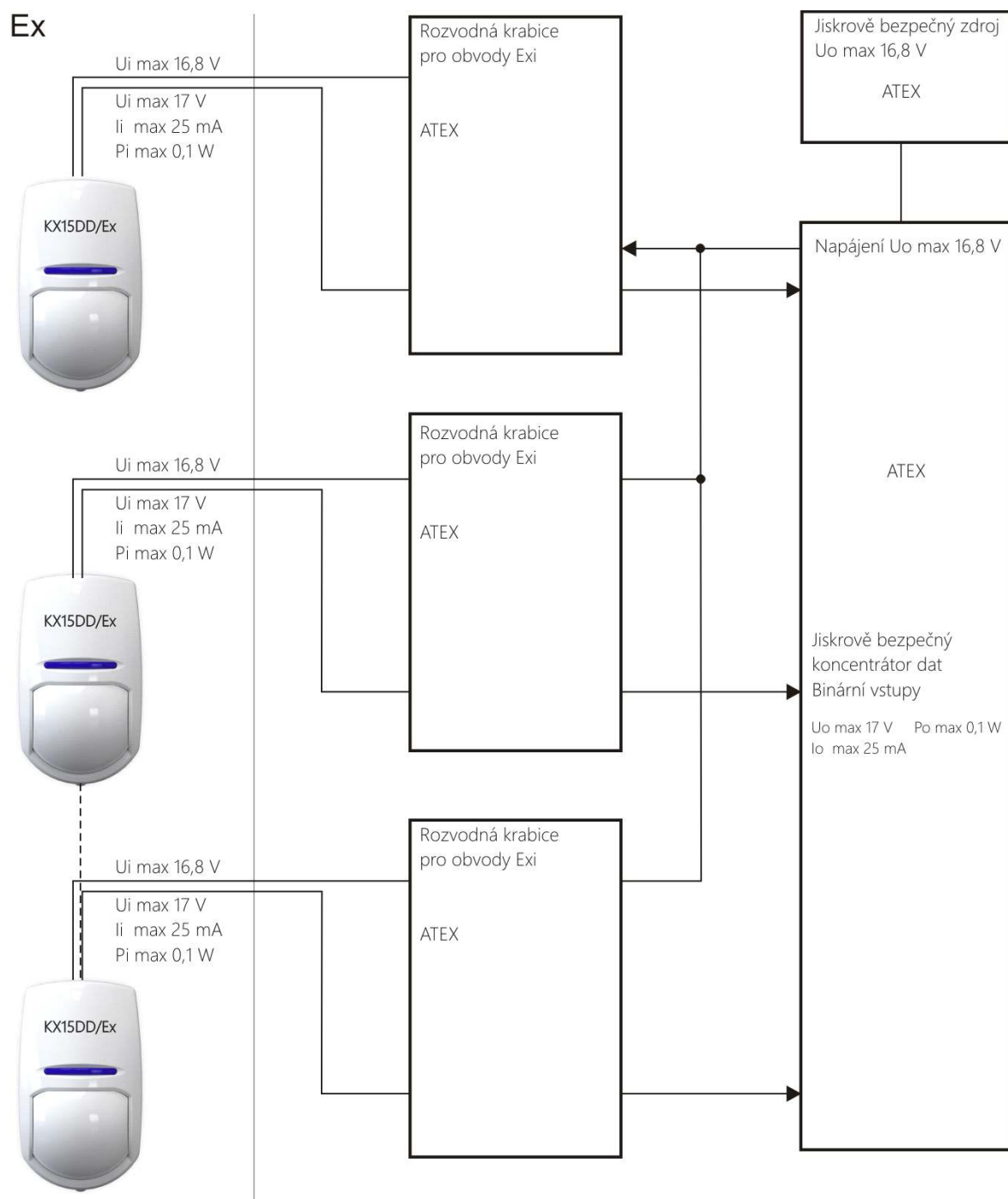


Fig. 2 Connection with one intrinsically safe power source and data concentrator

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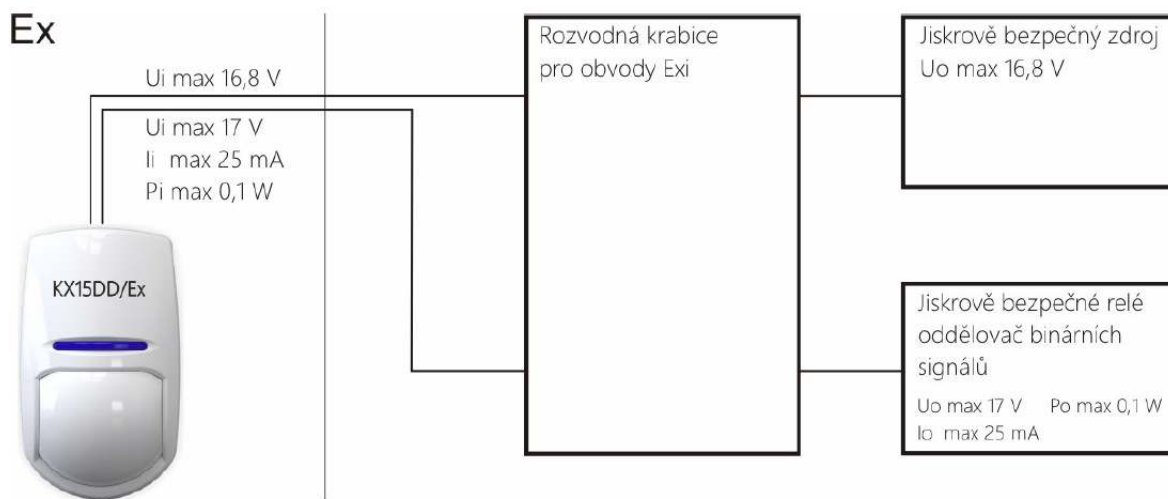


Fig. No. 3 Minimalistic connection of one detector

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