

# JBB 7048+

Intrinsically safe dual barriers (dual channel)  
for positive or negative polarization signals in grounded circuits.

INTRINSICALLY  
SAFE  
SECURITY SYSTEMS



## DESCRIPTION:

**JBB 704x+** Intrinsically safe barrier (Zener Barrier) for positive polarity of voltage or current, P12 housing.

**Dual channel.**

**JBB 704x-** Intrinsically safe barrier (Zener Barrier) for negative polarity of voltage or current, P12 housing.

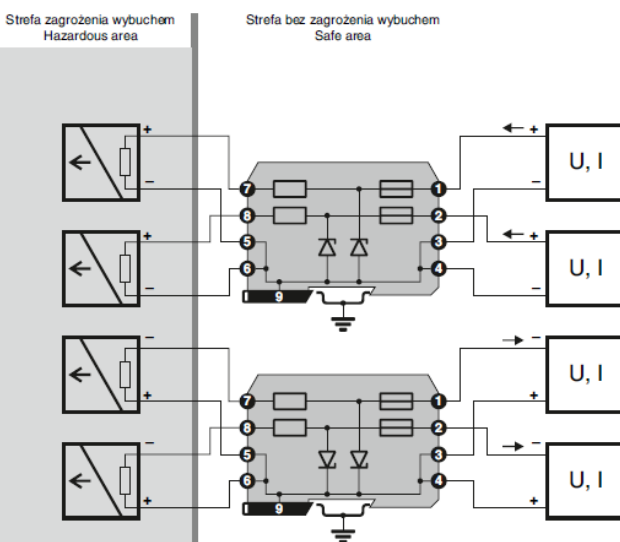
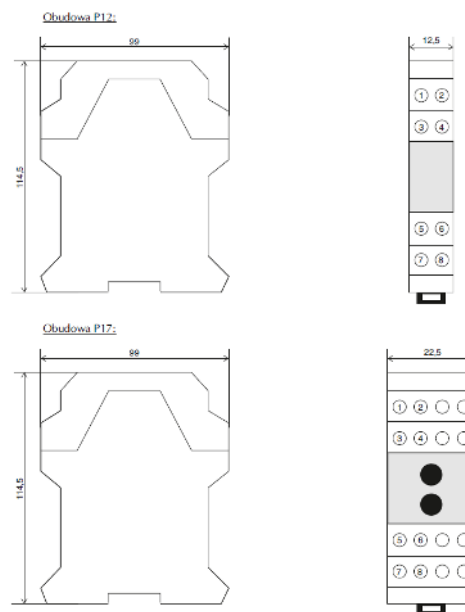
**Dual channel.**

**JBB 714x+** Intrinsically safe barrier (Zener Barrier) for positive polarity of voltage or current, with the possibility of replacing fuse, P17 housing.

**Dual channel. Replaceable fuse.**

**JBB 714x-** Intrinsically safe barrier (Zener Barrier) for negative polarity of voltage or current, with the possibility of replacing fuse, P17 housing.

**Dual channel. Replaceable fuse.**



## CONNECT:

**JBB 704x+, JBB 714x+**

- 1.....+ in/out 1
- 2.....+ in/out 2
- 7.....+ in/out 1 Ex
- 8.....+ in/out 2 Ex
- 3, 4, 5, 6, 9 ..... GND

**JBB 704x-, JBB 714x-**

- 1.....- in/out 1
- 2.....- in/out 2
- 7.....- in/out 1 Ex
- 8.....- in/out 2 Ex
- 3, 4, 5, 6, 9 ..... GND

• **Analog dual output with positive polarity to the explosion hazard zone:** they are used, for example, to control valves, position sensors, to control and power supply to optical signalling devices or and all other devices that are placed in the zone explosion hazard.

• **Analog dual output with negative polarity to the explosion hazard zone:** they are used, for example, to control valves, position sensors, to control and power supply to optical signalling devices or and all other devices that are placed in the zone explosion hazard.

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## TECHNICAL PARAMETERS:

Type	Group	U <sub>0</sub> [V]	I <sub>0</sub> [mA]	R <sub>0</sub> [Ω]	L <sub>0</sub> [mH]	C <sub>0</sub> [μF]
JBB (MM) 7049+	1	31,4	184	171	See below – items 1, 2, 3, 4, 5 in accordance with the Group	
JBB (MM) 7149+	1	31,4	184	171		
JBB (MM) 7049-	1	31,4	184	171		
JBB (MM) 7149-	1	31,4	184	171		
JBB (MM) 7048+	2	28	93	304		
JBB (MM) 7148+	2	28	93	304		
JBB (MM) 7048-	2	28	93	304		
JBB (MM) 7148-	2	28	93	304		
JBB (MM) 7047+	3	15,8	149	106		
JBB (MM) 7147+	3	15,8	149	106		
JBB (MM) 7047-	3	15,8	149	106		
JBB (MM) 7147-	3	15,8	149	106		
JBB (MM) 7046+	4	9,9	198	50		
JBB (MM) 7146+	4	9,9	198	50		
JBB (MM) 7046-	4	9,9	198	50		
JBB (MM) 7146-	4	9,9	198	50		
JBB (MM) 7045+	5	3	298	10,1		
JBB (MM) 7145+	5	3	298	10,1		
JBB (MM) 7045-	5	3	298	10,1		
JBB (MM) 7145-	5	3	298	10,1		

## COMMENTS:

U<sub>0</sub>, I<sub>0</sub>, R<sub>0</sub> - safety parameters;

All barriers are equipped with internal inaccessible fuse.

Series 714x additionally have internal replaceable fuse with lower nominal value.

\* type JBB7049 and JBB7149 cannot be used for IIC.

## WARNING:

**Please check compatibility safety parameters connected devices!**  
**Make sure that the system of equipment used is intrinsically safe!**  
**In the case of unclear please contact support MM Group, s.r.o.!**