

The diagram illustrates the electrical wiring for a gas alarm system (Szafa sterownika SS5) connected to a control cabinet (Obiekt).

Gas Sensors:

- METAN CH₄:** Two sensors (B01, B02) connected to terminals M1, 2, +. They share a common X1 terminal and are connected to X2 terminals 1 and 10.
- SIARKOWODÓR H₂S:** Two sensors (B01, B02) connected to terminals M1, 2, +. They share a common X1 terminal and are connected to X2 terminals 1 and 10.

Alarm Relays:

- Alarm A1:** NC (Normally Closed) and COM (Common) terminals are connected to the 12V DC supply. The NO (Normally Open) terminal is connected to the X1 terminal.
- Alarm A2:** NC (Normally Closed) and COM (Common) terminals are connected to the 12V DC supply. The NO (Normally Open) terminal is connected to the X1 terminal.

Power Supply:

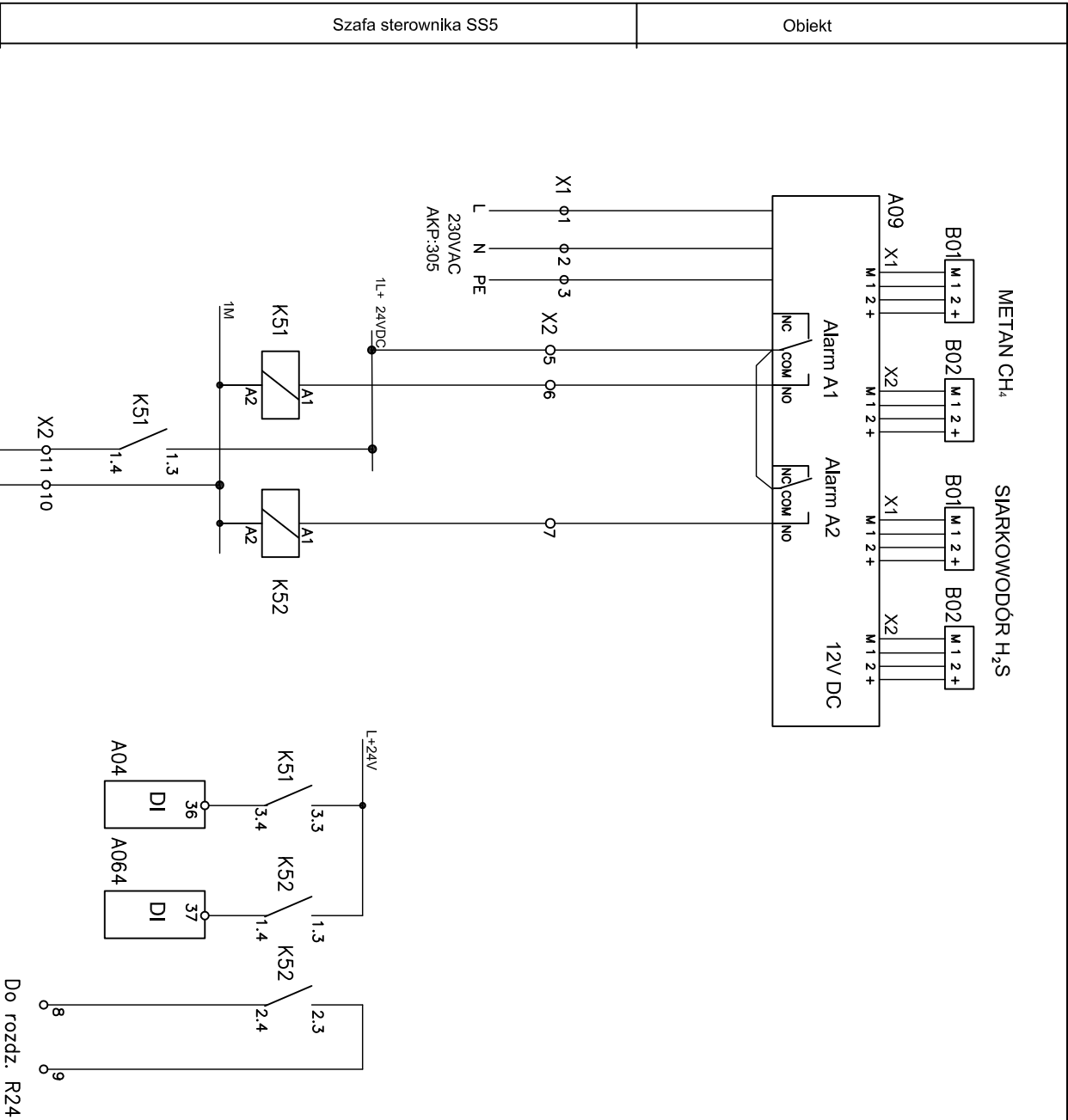
- 230VAC:** L (Line), N (Neutral), and PE (Protective Earth) terminals are connected to the main power supply.
- 24VDC:** 1L+ 24VDC terminal is connected to the 12V DC supply.

Control Cabinet (Szafa sterownika SS5):

- Terminals:** X1 (1, 2, 3, 5, 6, 7), X2 (1, 10), 1M, 1.3, 1.4, 2.3, 2.4, 3.3, 3.4, 3.6, 3.7, 8, 9.
- Relays:** K51 (Alarm A1), K52 (Alarm A2), K51 (DI), K52 (DI).
- Diodes:** DI (Alarm A1), DI (Alarm A2).

Connections:

- The 12V DC supply is connected to the 1L+ 24VDC terminal.
- The 12V DC supply is connected to the NC and COM terminals of both Alarm A1 and Alarm A2.
- The 12V DC supply is connected to the X1 terminal of both Alarm A1 and Alarm A2.
- The 12V DC supply is connected to the X1 terminal of both METAN CH₄ and SIARKOWODÓR H₂S sensors.
- The 12V DC supply is connected to the X2 terminals 1 and 10 of both METAN CH₄ and SIARKOWODÓR H₂S sensors.
- The 12V DC supply is connected to the X1 terminal of both Alarm A1 and Alarm A2.
- The 12V DC supply is connected to the X2 terminals 1 and 10 of both Alarm A1 and Alarm A2.
- The 12V DC supply is connected to the X1 terminal of both Alarm A1 and Alarm A2.
- The 12V DC supply is connected to the X2 terminals 1 and 10 of both Alarm A1 and Alarm A2.

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