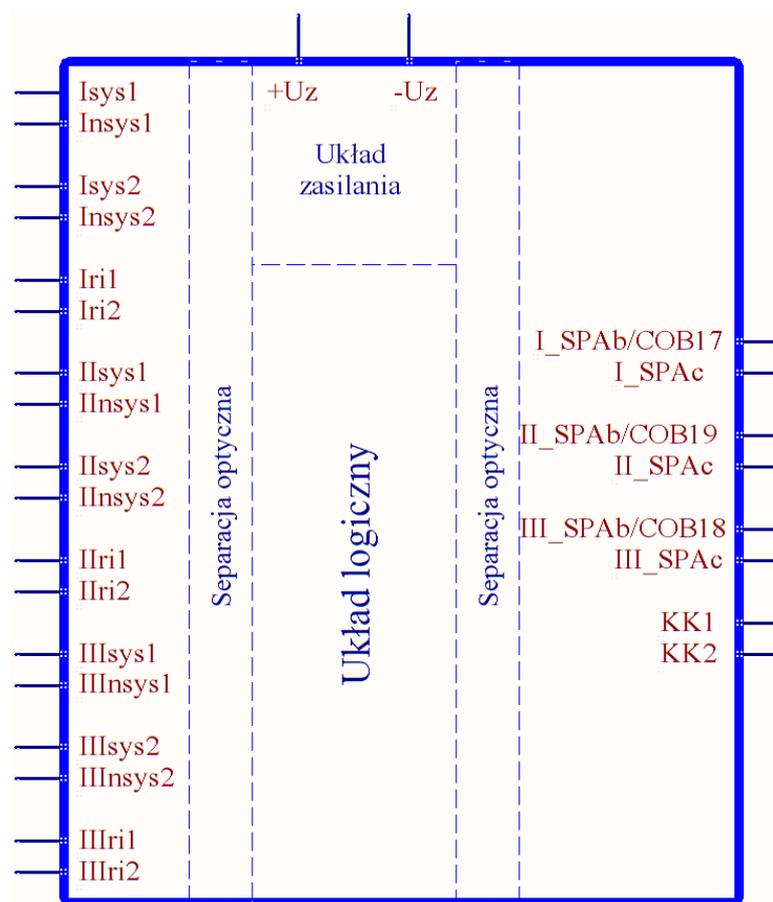


MF-3 Interface

Interface type MF-3 enables for mating of SSP systems type COB-63A, SPA-1, SPA-2, SPA-2A with wheel detection systems comprising RSR-180 sensors and AMC evaluation cards. The use of wheel detectors type RSR180 enables, inter alia, elimination of operating issues relating to corrosion of rail rolling surfaces at railway lines with small traffic. The interface ensures independent control of channel A and channel B of the level crossing system and signals critical failures by opening of the SSP system cable control circuit. Single interface MF3 is designed for use in level crossing devices SSP type COB-63A, SPA-1, SPA-2, SPA-2A, when there are three train impact points in specific solution. In the event of larger number of rail detectors in the system SSP, additional interface cards are required. The interface is an electronic device in the form of EURO card, dimensions 100x160 mm, installed in the Eurocassette 100 mm. Dimensions of the card front panel: 2x13.2 cm (3HE x 4TE). They are, therefore, same dimensions as those of evaluation card AMC mated with the interface.



Pictorial diagram of one channel of MF-3 interface

There are six variants of MF-3 card in the portfolio. Differences between individual variants consist in adjustment of SSP equipment inputs. Card type is determined at the stage of manufacture.

Type of MF-3 card	Output type	Output signals during wheel operation above the sensor.		Type and variant of mated SSP.
		direction W (b → c)	direction N (b ← c)	
/110 (ELS-3)				SPA-1:MER210201,MER210205,MER210310 SPA-2:MER221501,MER210215/2
/111 (EON-6)				SPA-2:MER221502,MER210216,MER210215/1 SPA-2A:MER221218
/100 (ELS-6)				SPA-1:MER210211,MER210312 SPA-2:MER210213,MER210312
/101				custom solutions
/000				COB 63A

The interface kit comprises evaluation cards AMC and interface cards MF-3 connected via dedicated bus and installed in Eurocassette.

Ports for interface connections with wheel detectors and the level crossing system are installed at the back of the bus.

Rated supply voltage: 24 VDC ±20%

Power intake: 400 mA (including three AMC022 cards)