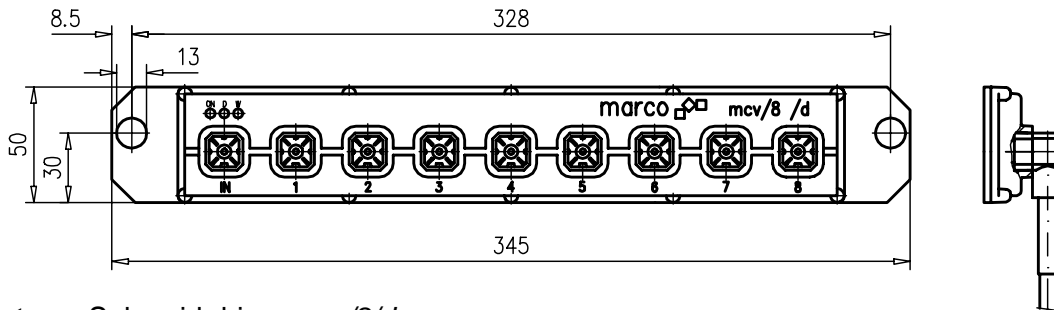




The *mcv/8/d* is a solenoid driver with digital outlets, e.g. for hydraulic pilot valves. It is driven by a control unit (*pm32*) via a serial interface. It is typically used for coal mining.

- Control of up to eight two-way valves
- Reply on the switching condition of the valve or input for external contact



**Picture:** Solenoid driver *mcv/8/d*

The solenoid driver is connected at the "IN" outlet of the solenoid bar with the valve interface of the control unit. The connection is established with a Hirschmann cable *com4*. The valves can be controlled for shield operations via the communication channels of the network. Valve control can be exerted either from the control units of the adjacent shields, from the main control unit, or from the SCU in the respective shield (if necessary).

- Power On (LED "On"): The green LED is on, if the power supply is o.k.
- Communication (LED "D"): The yellow LED flashes, if communication is working.
- Hardware-Watchdog (LED "W"): The red LED is on, if there is an internal error condition at the solenoid driver, or if communication with the SCU is unsuccessful.

Connections Communication	
Pin	Description
1	power supply +UB
2	clock
3	data
4	0 V ground

Solenoid connector	
Pin	Description
1	power supply +UB
2	solenoid 1
3	solenoid 2
4	0 V ground

Connector	Hirschmann 4-Pin
Dimensions	356 mm x 50 mm x 30 mm (l x w x h)
Power supply	8–28 VDC
Operating current	not controlled: 1 mA Controlled: 4 mA
Upper limit	8 A for all valves automatic overcharge fuse
Approval ATEX	EEx ib I INERIS 03ATEX0139 $U_i = 13.2 \text{ V}$ , $I_i = 2 \text{ A}$
Approval MSHA	$L_i = 0$ , $C_i = 0.3 \mu\text{F}$ and $5 \mu\text{F}$ in series with $110 \Omega$ . as I.S.C.
Approval Russia	POCC DE.ГБ05.B02014 NANIO CCVE PPC 00-25498 Rostekhnadzor

Switches connect the outputs "Solenoid 1/2" with "0 V Ground".

Contacts have to be connected between "+UB" and "Solenoid 1/2" for input.



### Applications

mcv/8/d drives solenoids for electro-hydraulic control systems.

Order Number	Release	Description
<i>mcv/8/d</i> <i>lab/hml</i> <i>conm/4ah&lt;cm&gt;</i> <i>conm/4sh&lt;cm&gt;</i> <i>conm/4h&lt;Valve&gt;&lt;cm&gt;</i>	2.0	Solenoid driver Plug with LEDs for Testing Cable <i>conm</i> /Hirschmann Cable SKK24/Hirschmann Cable Hirschmann to valve