

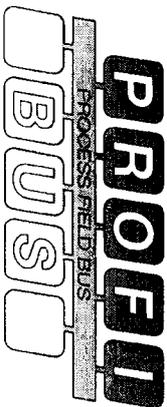
Indication

The module has integrated LED indication, which shows module and input status.

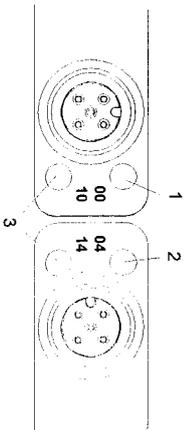
LED	Colour	Status
POWER	green	Bus electronics and sensors supply present.
DI	green	This LED is on when at least one actuator supply is present.
POWER DO	green	
ERROR DI	red	Possible errors : - undervoltage sensors - at least one sensor supply is short-circuited or overloaded.
ERROR DO	red	Possible errors : - undervoltage, at least one actuator side - at least one output is short-circuited or overloaded.
RUN BUS	green	Data transfer with Master activated.

Accessories

Part.No.	Label
55 380	MVK-P DI8 (DI8)
55 381	MVK-P DIO8 (DI8)
55 383	MVK-P DIO8 (DIO8)
55 359	Bus termination set
55 468	Screw cap M12 black (4 pieces)
55 777	Profibus cable
55 246	GSD file
55 357	Screw thread M16x1,5 (2 pieces)
55 394	Handbook MVK-MP (ger./engl./fr.)
55381_INA_E_11.DOC	



LED on the M12 connectors :



- 1,2 Output yellow LED, Input yellow Led
- 3 Diagnosis red LED or Input yellow LED

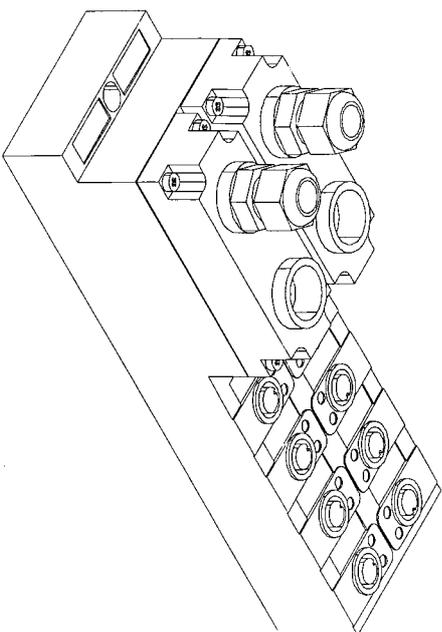
Module data

Identification number : 0x0644 hex



Good chemical and oil resistance.
 When using aggressive mediums, material resistance based on application must be checked.
 When handling the modules, the users must be free of electrostatics.
 Provide for appropriate interference suppression measures when using the device in the vicinity of residential areas.

MVK-P DIO8 + 8x Diagnosis/DI





General information

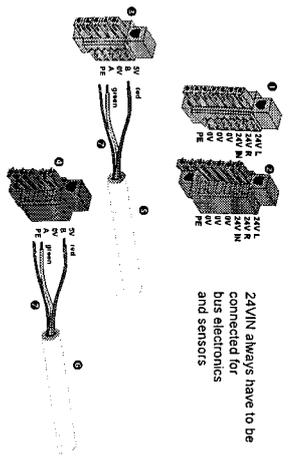
These installation notes explain only the wiring arrangement for this module. Further technical notes and safety instructions are printed in the handbook MVK-P Part.Nb. 55 394.

Mounting

The MVK-P DIO8 (DI8) module can be mounted directly onto a base plate or on to a machine by means of two fixing holes in the housing of the module. Please ensure that the mounting surface has no unevenness, which could put a strain on the module housing. The module mounting requires two screws \varnothing 4 mm and two washers. The spacing of the fixing holes is $208 \pm 0,5$ mm.
 Torque of the M4 screws: 1,5 Nm.

Connection of the supply

The actuators are supplied by the 24V/L connector (actuator supply, left side) and 24V/R connector (actuator supply, right side).



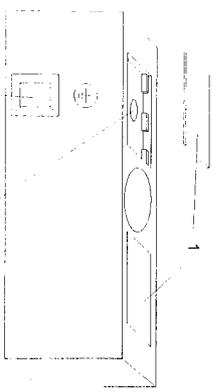
- 1: Outgoing power supply connector (green)
- 2: Incoming powers supply connector (black)
- 3: Outgoing bus connector (green)
- 4: Incoming bus connector (black)
- 5: Outgoing bus cable
- 6: Incoming bus cable
- 7: Braided screen

The max. admissible current per Pin is 9 A. This shall be observed for the current to the module (outputs) and the supply distribution (Power Out).

The terminal strips must be mounted in accordance with the diagram and the colour codes !

! Reverse polarity of the actuator supply may damage the module !

1. Strip the cable (see Cable making).
2. Fix M16x1,5 screw threads (Part Nb 55 357) on to the covering and a screw cap (Part Nb 55 358 – 1 piece included) on the sockets that are not used.
3. Lead the bare cable through the M16x1,5 screw thread. Tighten the screw thread.
4. Connect the cable to the connector (the connector can be removed for an easy connection).
5. Fit the covering and tighten the screws. Torque of the M3 screw : 0,5 Nm. The cable shield has to be connected using the coupling and the connectors ② and ③. Make a short and low-resistance PE-connection between the housing (screw under the label plate) and the ground cable. This connection should not exceed 20 cm. to assure conformity with EMC norms.

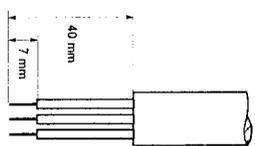


- 1 Label plate
- 2 Screw for the PE connection
- 3 PE connection terminal



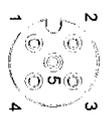
Cable making

Supply cable, Profibus cable



Connection of actuators/sensors to M12 female connectors

The actuators/sensors can be directly connected to the round plug connectors M12 female.

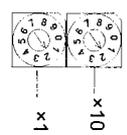


- Digital Outputs (DO)/Diagnosis Inputs (Diag/DI):
- 1: +24 V
 - 2: Diag 10 to 17 (default) or DI 10 to DI 17
 - 3: 0V
 - 4: DI 00 to DI 07 (default) or DO 00 to DO 07
 - 5: PE

Note : the M12 sockets that are not used must be closed by means of a screw cap (Part.Nb. 55 468).
 Torque : 0,6+0,1 Nm

Station address

The station address is set by means of two BCD selectors located under the covering cap. The decimal coded address is directly set by the two selectors.



1. Switch off the supply
2. Open the cap
3. Set the address
4. Close the cap
5. Switch on the supply

Addresses can be set between 1 and 99.

Note : The address of the module is only registered when the device is switched-on.

PROFIBUS configuration

The floppy disk that enables the PROFIBUS configuration is available on request or can be downloaded from our Internet site www.murrelektronik.com. If you configure the MVK-P module with a configuration software (e.g. COM-PROFIBUS), you will need a COM file. Copy this file into the job directory of the PG or the PC.

When configuring the PROFIBUS-DP slaves by means of the configuration software, the MVK-P modules are displayed in the selection window Type of station under the label "MURR".

Other systems

On the above mentioned floppy disk 3,5", you will also find the GSD file in the directory MMVKGSD. This file is used by most of the usual configuration systems.