

Field bus modules with fuse type IP67 are a main component of the machine, replacing elaborately wired, and thus expensive, terminal boxes. The field bus replaces the conventional parallel wiring. This saves a lot of space in the switch cabinet. The preferred placing of the modules is close to the process. They establish the connections from sensors and actuators to the controls via pre-configured cables. In comparison to conventional wiring technology, assembly, commissioning and servicing times are significantly shortened, lowering the costs of installation and maintenance. Set-up and easy localisation of errors via field bus at the control system.

Economical distribution – compact and robust

The I/O stage is located exactly where it is needed. Directly in the machine, in the immediate vicinity of sensors and actuators, dispensing with elaborate arrangements for leading sensor cables into the control cabinet.

- Short I/O lines reduce installation expenditure
- Plug-in connections avoid wiring errors and simplify servicing
- Intricate parallel and hard-wire installation replaced by simple and fast connectors

Don't look for errors, find them – total diagnostic

That means detailed information on type and location of the error.

- Single-channel diagnostic
- Only the "affected" plug position shuts down, not the whole module
- Detailed message to controls and local LED indicator

- Errors are found more rapidly, interferences are rectified faster
- Minimizes system downtime
- Shortens start-up time

Highest flexibility – through multifunctional I/Os

Whether input, output or diagnostic input, freely selectable parameterization of both signals for each individual M12 module slot.

Efficient use of modules.

- Double valves occupy only one M12 module slot
- No separate modules for inputs and outputs
- No unplanned reserves
- Maximum flexibility for expansions
- Fewer variants required, minimizes inventory carrying costs

MVK metal – robust and watertight

Fully encapsulated field bus modules in metal housings are particularly robust and thus ideal for use in rough environments in mechanical engineering and plant construction. Endurance paired with water-tightness are the keywords in such environments.

Durable and robust design

- Surface-refined zinc diecast housing for effective protection against weld spatter
- Compound-filled electronic unit for maximum strength against shock/vibration
- Resistant to a whole series of coolants and lubricants

- Robust design for universal applications
- On-site installation ensures the shortest possible I/O line while reducing installation expenditure
- Servicing simplified by clear connection configuration

MVK Plastic – Light, tight and versatile

MVK plastic modules have versatile, plugged connection technology, harmonized with the common field bus systems. With their light construction with housing protection IP67, these modules offer a convenient solution for rationalized, decentralized automation outside the immediate influence of caustic media.

Easiest service and maintenance at reduced storage costs

MVK modules with multifunctional plugs and Profibus interfaces are able to replace all functions of the MVK serie. They are suitable for "Service modules". Only one module for every situation. The adaption into the system is fully automatically and doesn't require any further interferences into the project softwares.

Module exchanging – address configuration – ready

- easy service and maintenance
- one module for every case minimizes storage cost
- reduces down time

MVK with metal housing



MVK-MP

8 DI + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



Page 2.2.3



MVK-MDN

8 DI + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



Page 2.2.5



MVK-MI

8 DI + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



Page 2.2.7

MVK with plastic housing



MVK-P

8 DI + 8 x diagnostic/DI
 4 DI 4 DO + 8 x diagnostic/DI
 8 DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



8 DI + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO

Page 2.2.4



MVK-DN

8 DI + 8 x diagnostic/DI
 4 DI 4 DO + 8 x diagnostic/DI
 8 DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



Page 2.2.6



MVK-I

8 DI + 8 x diagnostic/DI
 4 DI 4 DO + 8 x diagnostic/DI
 8 DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI
 8 DI/DO + 8 x diagnostic/DI/DO



Page 2.2.8



MVK-DESINA® LWL ECOFAST® and MVK-DESINA® CU ECOFAST®

8 DI/DO + 8 x diagnostic/DI



Page 2.2.9

Bus modules MVK metal
Profibus-DP

Input/output module

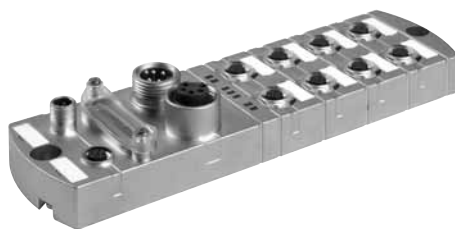
Protection IP67



MVK

Approvals 

MVK-MP



Ordering data

| | Art.-No. |
|---------------------------------|----------|
| 8 DI + 8 x diagnostic/ DI | 55307 |
| 8 DI/DO + 8 x diagnostic/ DI | 55308 |
| 8 DI/DO + 8 x diagnostic/ DI/DO | 55309 |

Field bus

| | |
|-------------------|-------------------------------------|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 |
| Type | Profibus-DP slave |
| Transfer protocol | Profibus-DP to EN50170 |
| Operating modes | sync- and freeze-mode are supported |
| Transfer rate | up to 12 MBit/s |

Inputs

| | |
|------------------|--|
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, $I_{total} \leq 200$ mA per M12 port |
| Status indicator | 1 yellow LED per input |

Outputs

| | |
|------------------------------|---|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, $I_{total} \leq 9$ A |
| Switching current per output | 1.6 A, short-circuit and overload protected |
| Filament lamp load | 10 W |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz |
| Status indicator | 1 yellow LED per output |

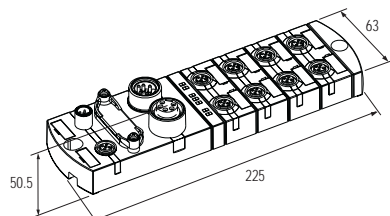
Diagnostic

| | |
|-------------------------------|--|
| Field bus | RUN-LED |
| Under voltage | combined LED and alarm to the master |
| Short-circuit sensor/actuator | 2 red LEDs per channel to M12 port |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data |

General data

| | |
|-------------------|--|
| Temperature range | 0...+55 °C (storage temperature -20...+70 °C) |
| Mounting method | 2-hole screw mounting |
| Dimensions | 225 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) |

Dimension drawing



Notes

Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...

MVK - Compact I/O modules

Bus modules MVK
Profibus-DP

Input/output module

Protection IP67



Approvals

MVK-P



MVK-P



MVK

| Ordering data | Art.-No. | Art.-No. |
|---------------------------------|----------|---------------------|
| 8 DI + 8 x diagnostic/ DI | 55326 | ¹⁾ 55380 |
| 4 DI 4 DO + 8 x diagnostic/ DI | 55328 | |
| 8 DO + 8 x diagnostic/ DI | 55327 | |
| 8 DI/DO + 8 x diagnostic/ DI | 55389 | ¹⁾ 55381 |
| 8 DI/DO + 8 x diagnostic/ DI/DO | 55329 | ¹⁾ 55383 |

| Field bus | | |
|-------------------|-------------------------------------|--|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 | |
| Type | Profibus-DP Slave | |
| Transfer protocol | Profibus-DP to EN50170 | |
| Operating modes | sync- and freeze-mode are supported | |
| Transfer rate | up to 12 MBit/s | |

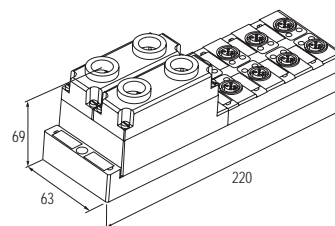
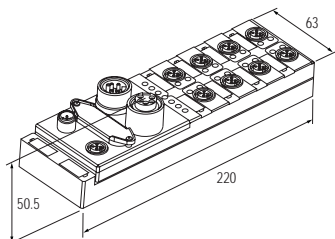
| Inputs | | |
|------------------|--|--|
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port | |
| Status indicator | 1 yellow LED per input | |

| Outputs | | |
|------------------------------|--|---|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 9 A | 24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 12.8 A |
| Switching current per output | 1.6 A, short-circuit and overload protected | |
| Filament lamp load | 10 W | |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz | |
| Status indicator | 1 yellow LED per output | |

| Diagnostic | | |
|-------------------------------|--|--|
| Field bus | RUN-LED | |
| Under voltage | combined LED and alarm to the master | |
| Short-circuit sensor/actuator | red LED per channel to M12 port | |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data | |

| General data | | |
|-------------------|--|--|
| Temperature range | 0...+55 °C (storage temperature -20...+70 °C) | |
| Mounting method | 2-hole screw mounting | |
| Dimensions | 220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) | 220 x 63 x 69 mm (drill plan 208.5 ± 0.5 mm) |

Dimension drawing



| Notes | | |
|---|--|--|
| Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4... | | |
| ¹⁾ 2 shielded screw fixings supplied. | | |

Bus modules MVK metal
DeviceNet

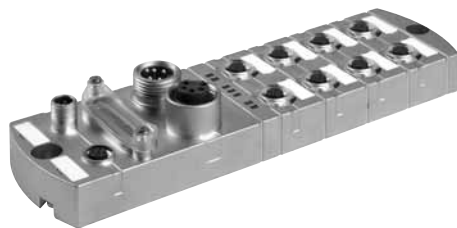
Input/output module

Protection IP67

DeviceNet
CONFORMANCE TESTED

Approvals

MVK-MDN



| Ordering data | Art.-No. |
|---------------------------------|----------|
| 8 DI + 8 x diagnostic/ DI | 55297 |
| 4 DI 4 DO + 8 x diagnostic/ DI | 55298 |
| 8 DI/DO + 8 x diagnostic/ DI/DO | 55299 |

| Field bus | |
|-------------------|--|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 |
| Type | prod. type 7; generic I/O module |
| Transfer protocol | CAN; layer 7 DeviceNet (ODVA conformance tested) |
| Operating modes | polling; change of state; cyclic |
| Transfer rate | 125 kBit/s; 250 kBit/s; 500 kBit/s |
| Bus connector | micro connector (M12 connector) |

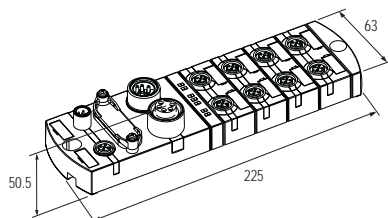
| Inputs | |
|------------------|--|
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port |
| Status indicator | 1 yellow LED per input |

| Outputs | |
|------------------------------|---|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 9 A |
| Switching current per output | 1.6 A, short-circuit and overload protected |
| Filament lamp load | 10 W |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz |
| Status indicator | 1 yellow LED per output |

| Diagnostic | |
|-------------------------------|--|
| Field bus | MS-LED, NS-LED |
| Under voltage | combined LED and alarm to the master |
| Short-circuit sensor/actuator | 2 red LED per channel to M12 port |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data |

| General data | |
|-------------------|--|
| Temperature range | 0...+55 °C (storage temperature -20...+70 °C) |
| Mounting method | 2-hole screw mounting |
| Dimensions | 225 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) |

Dimension drawing



| Notes | |
|---|--|
| Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4... | |

Bus modules MVK
DeviceNet mini

Input/output module

Protection IP67



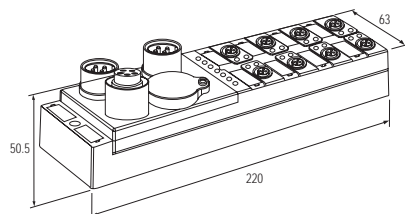
Approvals

MVK-DN



MVK

| Ordering data | | Art.-No. |
|-------------------------------|--|----------|
| 8 DI | + 8 x diagnostic/ DI | 55311 |
| 4 DI 4 DO | + 8 x diagnostic/ DI | 55313 |
| 8 DO | + 8 x diagnostic/ DI | 55314 |
| 8 DI/DO | + 8 x diagnostic/ DI/DO | 55312 |
| Field bus | | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 | |
| Type | prod. type 7; generic I/O module | |
| Transfer protocol | CAN; layer 7 DeviceNet (ODVA conformance tested) | |
| Operating modes | polling; change of state; cyclic | |
| Transfer rate | 125 kBit/s; 250 kBit/s; 500 kBit/s | |
| Bus connector | mini connector (7/8") | |
| Inputs | | |
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port | |
| Status indicator | 1 yellow LED per input | |
| Outputs | | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, I _{total} ≤ 9 A | |
| Switching current per output | 1.6 A, short-circuit and overload protected | |
| Filament lamp load | 10 W | |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz | |
| Status indicator | 1 yellow LED per output | |
| Diagnostic | | |
| Field bus | MS-LED, NS-LED | |
| Under voltage | combined LED and alarm to the master | |
| Short-circuit sensor/actuator | red LED per channel to M12 port | |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data | |
| General data | | |
| Temperature range | 0...+ 55 °C (storage temperature: - 20...+ 70 °C) | |
| Mounting method | 2-hole screw mounting | |
| Dimensions | 220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) | |
| Dimension drawing | | |



Notes
Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...

Bus modules MVK
Interbus

Input/output module

Protection IP67



Approvals 

MVK-MI



Ordering data

| | Art.-No. |
|---------------------------------|----------|
| 8 DI + 8 x diagnostic/ DI | 55294 |
| 8 DI/DO + 8 x diagnostic/ DI | 55295 |
| 8 DI/DO + 8 x diagnostic/ DI/DO | 55296 |

Field bus

| | |
|-------------------|--|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 |
| Type | remote bus/installations remote bus participants (slave) |
| Transfer protocol | Interbus to DIN EN 50254 |
| Transfer rate | 500 kBit/s |

Inputs

| | |
|------------------|--|
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port |
| Status indicator | 1 yellow LED per input |

Outputs

| | |
|------------------------------|---|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, I-total ≤ 9 A |
| Switching current per output | 1.6 A, short-circuit and overload protected |
| Filament lamp load | 10 W |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz |
| Status indicator | 1 yellow LED per output |

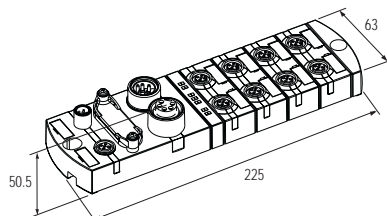
Diagnostic

| | |
|-------------------------------|---|
| Field bus | BA-, RD-, RC-LEDs |
| Under voltage | combined LED and alarm to the master |
| Short-circuit sensor/actuator | red LED per channel to M12 port |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data |

General data

| | |
|-------------------|--|
| Temperature range | 0...+55 °C (storage temperature -20...+70 °C) |
| Mounting method | 2-hole screw mounting |
| Dimensions | 225 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) |

Dimension drawing



Notes

Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4...

Bus modules MVK
Interbus

Input/output module

Protection IP67



Approvals

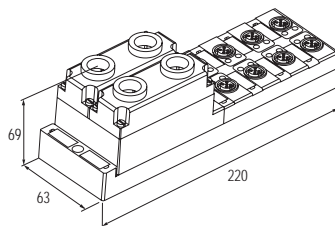
MVK-I



MVK

| Ordering data | Art.-No. | Art.-No. |
|---|----------|----------|
| 8 DI + 8 x diagnostic/ DI housing blue/black | 55330 | |
| 4 DI 4 DO + 8 x diagnostic/ DI housing black | 55331 | |
| 8 DO + 8 x diagnostic/ DI housing gray/black | 55332 | |
| 8 DI/DO + 8 x diagnostic/ DI housing black | | 55336 |
| 8 DI/DO + 8 x diagnostic/ DI/DO housing black | 55335 | |

| Field bus | |
|-------------------------------|---|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 |
| Type | remote bus/installations remote bus participants (slave) |
| Transfer protocol | Interbus to DIN EN 50254 |
| Transfer rate | 500 kBit/s |
| Inputs | |
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 port |
| Status indicator | 1 yellow LED per input |
| Outputs | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, $I_{total} \leq 12.8$ A |
| Switching current per output | 1.6 A, short-circuit and overload protected 2 A, short-circuit and overload protected |
| Filament lamp load | 10 W |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz |
| Status indicator | 1 yellow LED per output |
| Diagnostic | |
| Field bus | BA-, RD-, RC-LEDs |
| Under voltage | combined LED and alarm to the master |
| Short-circuit sensor/actuator | red LED per channel to M12 port |
| Diagnostic to DESINA® (PIN 2) | PIN-2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data |
| General data | |
| Temperature range | 0...+55 °C (storage temperature -20...+70 °C) |
| Mounting method | 2-hole screw mounting |
| Dimensions | 220 x 63 x 69 mm (drill plan 208.5 ± 0.5 mm) |
| Dimension drawing | |



| Notes |
|---|
| 4 separate voltages for bus electronic/sensor, actuator on left side and actuator on right side. Cable compression glands are not supplied. Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4... |

Bus modules MVK
DESINA®

Input/output module

Protection IP67



Approvals

MVK-DESINA® LWL ECOFAST®
fibre optic cable (F.O.)

MVK-DESINA® CU ECOFAST®
copper

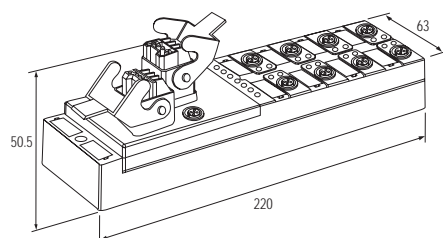


| Ordering data | Art.-No. | Art.-No. |
|------------------------------|----------|----------|
| 8 DI/DO + 8 x diagnostic/ DI | 55325 | 55378 |

| Technical data | |
|-------------------------------|--|
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2 |
| Type | Profibus-DP slave |
| Transfer protocol | Profibus-DP to EN50170 |
| Operating modes | sync- and freeze-mode are supported |
| Transfer rate | up to 12 MBit/s |
| Inputs | |
| Type | for 3-wire sensors or mechanical switches, p-switching, IEC-1131-2 type 2 compatible |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female |
| Status indicator | 1 LED yellow per input |
| Outputs | |
| Supply voltage | 24 V DC (18...30.2 V), to EN61131-2; I-total ≤ 10 A |
| Switching current per output | 1.6 A, short-circuit and overload protected |
| Filament lamp load | 10 W |
| Max. switching frequency | resistive load: 50 Hz; inductive load: 20 Hz |
| Status indicator | 1 LED yellow per output |
| Diagnostic | |
| Field bus | RUN-LED |
| Under voltage | combined LED and alarm to the master |
| Short-circuit sensor/actuator | red LED per channel to M12 port |
| Diagnostic to DESINA® (PIN 2) | PIN 2 diagnostic with 1 red LED per M12 port and signal to master; individually parameterized as digital input see technical data |

| General data | |
|-------------------|--|
| Temperature range | 0...+55 °C (storage temperature: -20...+75 °C) |
| Mounting method | 2-hole screw mounting |
| Dimensions | H x W x D 220 x 63 x 50.5 mm (drill plan 208.5 ± 0.5 mm) |

Dimension drawing



| Notes |
|---|
| Contact layout from page 2.2.10. Further accessories from page 2.2.13. Connection cables can be found in chapter 1.4... |

Contact layout for MVK-MP and MVK-P

Art.-No. 55307, 55308, 55309, 55326, 55327, 55328, 55329, 55389

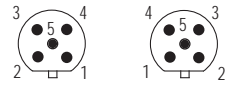
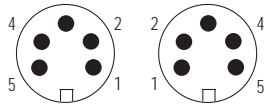


POWER IN
Male 7/8"

POWER OUT
Female 7/8"

BUS IN
Male M12

BUS OUT
Female M12



PIN 1: GND
PIN 2: GND
PIN 3: PE
PIN 4: 24 V supply voltage and sensor supply
PIN 5: actuator supply

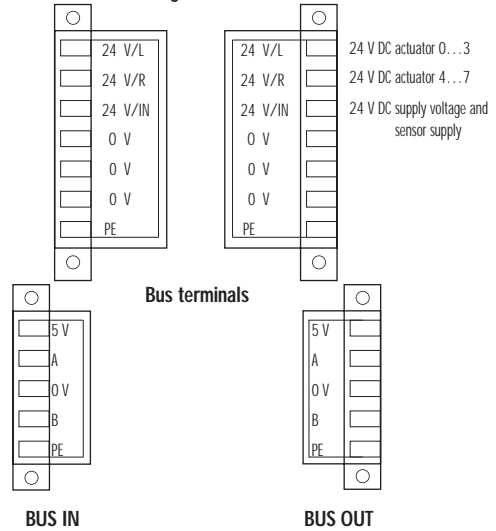
Top view of module

PIN 1: 5 V
PIN 2: A-wire (green)
PIN 3: 0 V
PIN 4: B-wire (red)
PIN 5: shield

Connection: shield

Art.-No. 55380, 55381, 55383

Voltage terminals



Contact layout for MVK-MDN

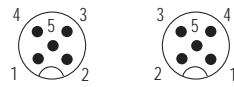
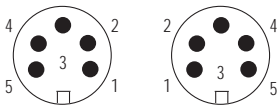


POWER IN
Male 7/8"

POWER OUT
Female 7/8"

BUS IN
Male M12

BUS OUT
Female M12



PIN 1: GND
PIN 2: GND
PIN 3: PE
PIN 4: 24 V supply voltage and sensor supply
PIN 5: actuator supply

Top view of module

PIN 1: shield
PIN 2: V+
PIN 3: V-
PIN 4: CAN_H
PIN 5: CAN_L

Connection: shield

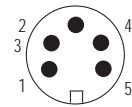
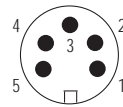
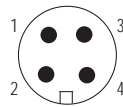
Contact layout for MVK-DN



POWER
Male 7/8"

BUS IN
Male 7/8"

BUS OUT
Female 7/8"



PIN 1: 24 V actuator 00...03 + sensor supply
PIN 2: PE
PIN 3: 24 V actuator 04...07
PIN 4: GND

Top view of module

PIN 1: shield
PIN 2: V+
PIN 3: V-
PIN 4: CAN_H
PIN 5: CAN_L

Contact layout for MVK-MI

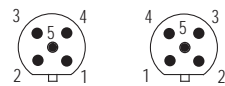
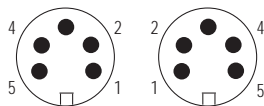


POWER IN
Male 7/8"

POWER OUT
Female 7/8"

BUS IN
Male M12

BUS OUT
Female M12



PIN 1: GND
PIN 2: GND
PIN 3: PE
PIN 4: 24 V supply voltage and sensor supply
PIN 5: actuator supply

Top view of module

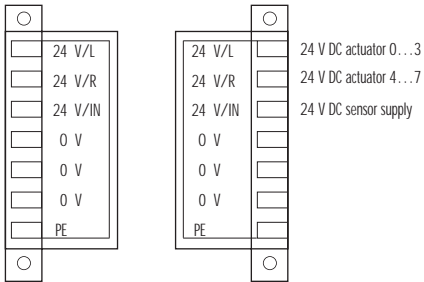
PIN 1: DO
PIN 2: /DO
PIN 3: DI
PIN 4: /DI
PIN 5: GND

Connection: shield

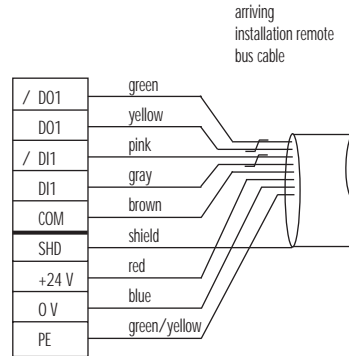
MVK-I for remote bus installer or user



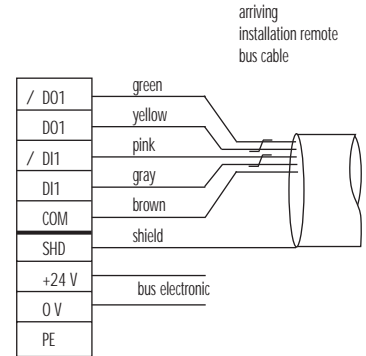
Voltage terminals



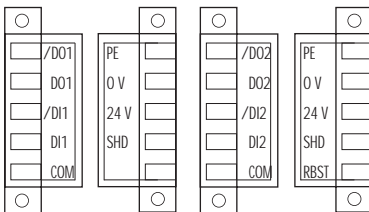
Connection as installation remote bus user



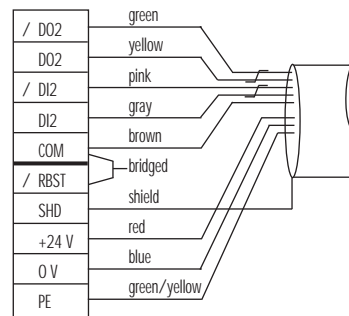
Connection as remote bus user



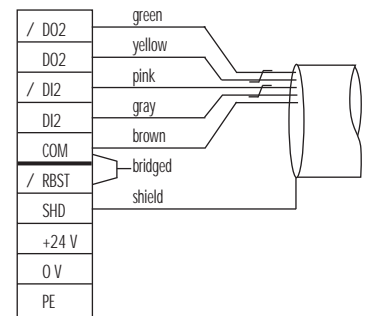
Bus terminals



passing installation remote bus cable



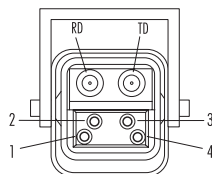
passing installation remote bus cable



Contact layout for MVK-DESINA® LWL ECOFAST® and MVK-DESINA® CU ECOFAST®



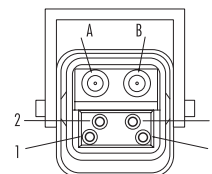
Male/female LWL



- TD: transmit data (LWL)
- RD: receive data (LWL)
- PIN 1: 24 V equal channels supply not switched (U_{ns})
- PIN 2: GND
- PIN 3: GND
- PIN 4: 24 V unequal channels supply switched (U_s)

Top view of module

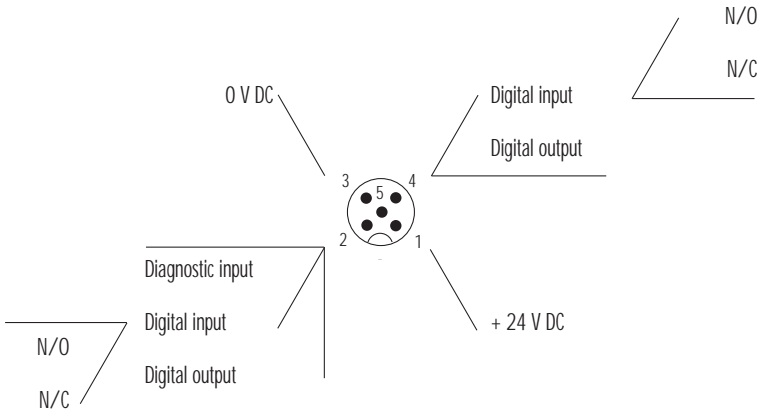
Male/female CU



- Data A: bus cable
- Data B: bus cable
- PIN 1: 24 V equal channels supply not switched (U_{ns})
- PIN 2: GND
- PIN 3: GND
- PIN 4: 24 V unequal channels supply switched (U_s)

Top view of module

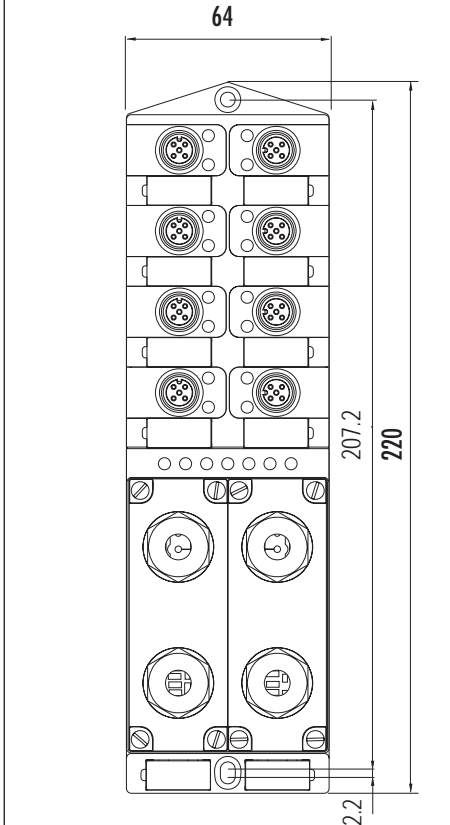
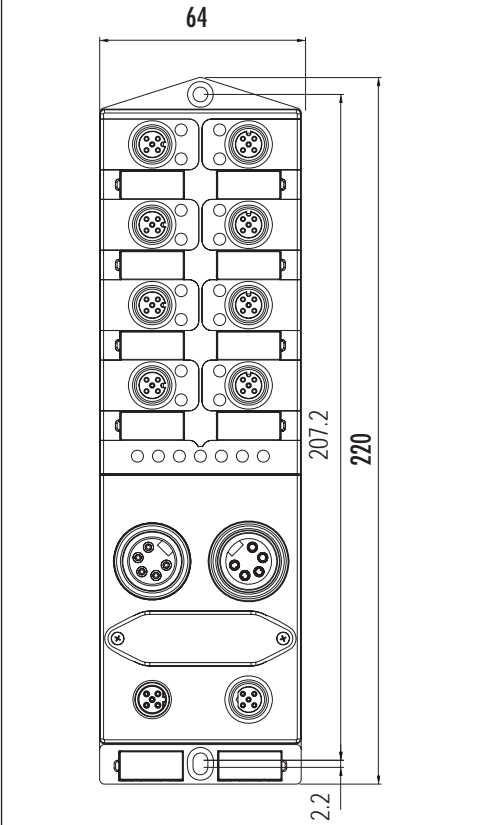
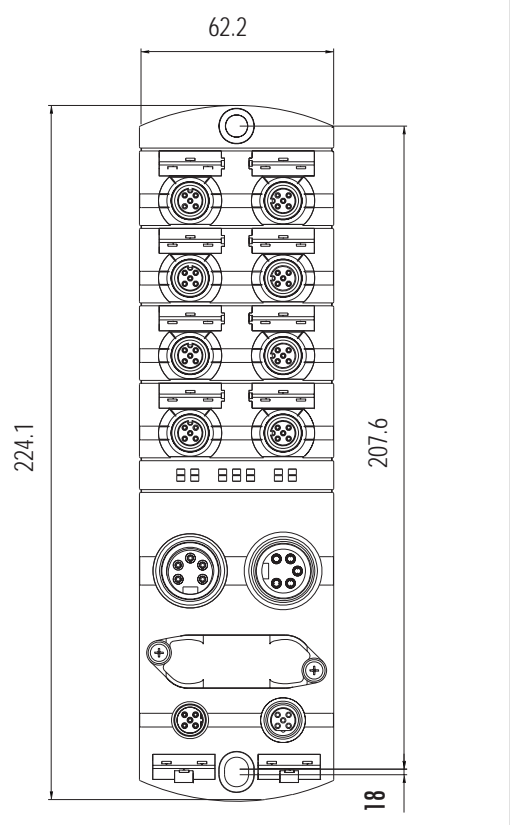
Possible parameterizations for multi functional I/Os







Drill plan for MVK metal housing

Drill plan for MVK plastic housing

Drill plan for MVK-I plastic housing



| Installation technology | | | Art.-No. |
|---|---|-----------------------------------|-------------------|
|  | DESINA® terminator | | 7000-33021-000000 |
|  | DESINA® addressing or coding plug | | 55379 |
| Installation technology | | | Art.-No. |
| | Blind cap hybrid field bus connector | Set (1 piece) | 67584 |
|  | Blind plug 7/8" | | 55390 |
| | Addressing lid metal | Set (1 piece) | 55317 |
| Other | | | |
|  | MVK manuals available to download from www.murrelektronik.com | PROFIBUS DeviceNet Interbus | |
| Notes | Further system accessories on request. | | |