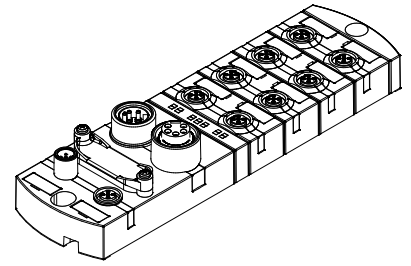


General

Profibus Slave IP67 with
 [M12 socket, 0 to 3] → 8 outputs
 [M12 socket, 4 to 7, contact 4] → 4 inputs or 4 outputs
 [M12 socket, 4 to 7, contact 2] → 4 diagnosis or 4 inputs or 4 outputs



EMC

EN 61131-2 Product standard

EN 61000-4-2 ESD	Contact ± 4 kV, air ± 8 kV
EN 61000-4-3 RF-Field + GSM	10 V/m
EN 61000-4-4 Burst	± 2 kV
EN 61000-4-5 Surge	asym./symm. ± 500 V (DC net input) asym. ± 1 kV (Signal connections)
EN 61000-4-6 HF-asymmetric	10 V
EN 61000-4-8 Magnetic field 50 Hz	30 A/m
EN 55011 Emission	QP 40 dBµV/m (30 - 230 MHz) QP 47 dBµV/m (230 - 1000 MHz) Class A

Ambient conditions

Operating temperature	0°..+55°C / 32 to 131°F
Storage temperature	-25°..+70°C / -13 to 15 8°F
Enclosure type according to EN 60529	IP 67

Mechanical ambient conditions


Oscillation according to EN 60068 Part 2-6	10 – 58 Hz; const. amplitude 0,35 mm 58 – 150 Hz; const. acceleration 20 g
Shock according to EN 60068 Part 2-27	Amplitude 50 g, 11 ms duration

Connection possibilities

Supply cable	2 x connector 7/8" (male connector)
Data cable	2 x M12 connector 5-pin (male and female connector reverse-key coding)
Outputs, Inputs and diagnosis inputs.....	8 x 5-pin M12 female connectors

Miscellaneous

Dimensions (LxWxH)	225 x 63 x 39 mm / 8,865 x 2,482 x 1.537 in.
Mounting dimension.....	208,5 ±0,5 mm / 8,215 ±0,02 in.
Weight	780 g / 1.56 lbs
MTTF	41,66 years

							Datenblatt / Data sheet	
g	UA1/UA2 9A	01.06.10	vk	a	25.08.05	Weiler	MVK-MP K3 DO4(DO4)/DIO4(DIO4)	
f	fault exclusion	27.04.10	vk	g	01.06.10	vk		
e	13849-1/-2	25.01.10	bär	Ges.				
d	Safety / OutPower	05.08.09	ri					
c	Norm	27.06.06	M.H.				Art.No. 55 291	Blatt
b	Weight	20.01.06	CRJ					1
Idx.	Änderung	Datum	Nam.					3 Bl.
a	Erstausgabe	25.08.05	RBa	Dateiname: 55291_db_e_e				

Bus data

Transfer protocol	Profibus-DP acc. to EN 19245
Transfer rates	9,6/19,2/45,45/93,75/187,5/500/ 1500/3000/6000/12000 kBaud
Baudrate recognition	automatic
Modes	Sync. mode, Freeze mode are supported
Addressing	1 to 99 with BCD rotary switch
Ident. number	0x09EB hex

Power supply

Operation voltage U_B	24 V DC
Operation voltage range	18 ... 30 V DC
Current consumption (without inputs)	\leq 150 mA
Sensor supply	max. 200 mA per socket
Short circuit protection for sensors	Multifuse, up to 100 mA load: automatic start-up from 100 mA load: a reset is required
Multi-fuse reaction time (time to trip)	1s at $I_K \geq 1$ A and 23 °C
Connector	7/8" (Max. 1,5 mm ²)
Reverse polarity protection, inputs	yes

Inputs / Diagnosis

Delay time for signal change	2 bis 5 ms
Input characteristics	EN 61131-2, Type 2

Outputs Socket 0 to 3


Power per PIN	Max 2 A (9A for UA1 and 9A for UA2)
Power per Socket	3,2A
Cable length.....	With 0,75 mm ² max. 10 m With 0,34 mm ² max. 5 m
Connector	M12 (Max. 0,75 mm ²)
Cycle frequency	max. 50 Hz
Lamp load	max. 10 W

Outputs Socket 4 to 7

Actuator current load	max. 1.6 A per actuator
Cable length.....	With 0,75 mm ² max. 10 m With 0,34 mm ² max. 5 m
Connector	M12 (Max. 0,75 mm ²)
Cycle frequency	max. 50 Hz
Lamp load	max. 10 W

Safety

Response time	<100µs
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				Idx.	Datum	Gepr.	Datenblatt / Data sheet		
g	UA1/UA2 9A	01.06.10	vk	a	25.08.05	Weiler			MVK-MP K3 DO4(DO4)/DIO4(DIO4)
f	fault exclusion	27.04.10	vk	g	01.06.10	vk			
e	13849-1/-2	25.01.10	bär	Ges.					
d	Safety / OutPower	05.08.09	ri				Art.No. 55 291		
c	Norm	27.06.06	M.H.			Blatt 2			
b	Weight	20.01.06	CRJ						
Idx.	Änderung	Datum	Nam.	Dateiname: 55291_db_e_e		3 Bl.			
a	Erstausgabe	25.08.05	RBa						


Fault exclusions

reason

EN ISO 13849-2 D.5 base material according to IEC 60249
 pollution degree 2
 overvoltage category 3
 pcb clearance in air ≥ 0.2 mm
 pcb creepage distance ≥ 0.2 mm
 grouting

EN ISO 13849-2 D.7 pollution degree 2
 overvoltage category 3
 reinforced insulation
 connector clearance in air ≥ 0.5 mm
 connector creepage distance ≥ 1.06 mm

EN 61496-1:2009-03 B.4.2impulse withstand voltage greater than
 IEC 60664-1:2003, table 1,
 overvoltage category 3

				Idx.	Datum	Gepr.	Datenblatt / Data sheet MVK-MP K3 DO4(DO4)/DIO4(DIO4)		
g	UA1/UA2 9A	01.06.10	vk	a	25.08.05	Weiler			
f	fault exclusion	27.04.10	vk	g	01.06.10	vk			
e	13849-1/-2	25.01.10	bär	Ges.					
d	Safety / OutPower	05.08.09	ri				Art.No. 55 291		
c	Norm	27.06.06	M.H.						Blatt
b	Weight	20.01.06	CRJ			3			
Idx.	Änderung	Datum	Nam.			3 Bl.			
a	Erstausgabe	25.08.05	RBa	Dateiname: 55291_db_e_e					