

FLS CO M12 DO 8 M12-2A

Order No.: 2736084

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Fieldline stand-alone device, CANopen M12, 8 digital outputs, 24 V DC, 3-conductor, device approved for use in safety applications

CANopen**Commercial data**

GTIN (EAN)	4017918904555
sales group	L031
Pack	1 pcs.
Customs tariff	85176200
Weight/Piece	0.3922 KG
Catalog page information	Page 357 (AX-2009)

Product notes

WEEE/RoHS-compliant since:
03/17/2010



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Technical data**General data**

Width	60 mm
Height	178 mm
Depth	49.3 mm
Bore hole spacing	168 mm

Weight	350 g
Mounting type	Wall mounting
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP65/67
Class of protection	Class 3 as per VDE 0106, IEC 61440
Test section	24 V supply (bus logics) / FE
	24 V supply (bus logics) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min
	FE / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min

Interface

Fieldbus system	CANopen
Name	CANopen
Type of connection	2 M12 plug connectors, A-coded
Transmission speed	Maximum 1 Mbaud automatic detection
	10, 20, 50, 125, 250, 500, 1000 kBit/s (Automatic baud rate detection)
Transmission physics	Copper cable with optional power supply in acc. with CAN standard
Address space assignment	1 ... 126, adjustable
Number of positions	5

Power supply for module electronics

Type of connection	M12 plug connectors, (A-coded)
Name	U _L
Supply voltage	24 V DC
Range of supply voltages	18 V DC ... 30 V DC IEC 61131-2 (including ripple)

Fieldline potential routing

Voltage supply U _L	24 V DC
Power supply for U _L	4 A
Current consumption from U _L	Typ. 80 mA
	max. 100 mA
Voltage supply U _s	24 V DC

Power supply for U_s	max. 4 A
Current consumption from U_s	Typ. 3.5 mA
	max. 700 mA
Voltage supply U_{A11}	24 V DC
Power supply unit for U_{A11}	max. 4 A
Current consumption at U_{A11}	Typ. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U_{A12}	24 V DC
Power supply for U_{A12}	max. 4 A
Current consumption at U_{A12}	Typ. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U_{A21}	24 V DC
Power supply to U_{A21}	max. 4 A
Current consumption at U_{A21}	Typ. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U_{A22}	24 V DC
Power supply to U_{A22}	max. 4 A
Current consumption at U_{A22}	Typ. 12 mA (plus actuator current)
	max. 4 A

Digital outputs

Output name	Digital outputs
Type of connection	M12 plug connector
Connection method	2, 3-wire
Number of outputs	8
Protective circuitry	Short circuit protection
Output voltage	24 V DC
Maximum output current per channel	2 A

Certificates / Approvals



Certification CUL, TUEV-N, UL

Certification Ex: CUL-EX, UL-EX

Accessories

Item	Designation	Description
Cable/conductor		
1509487	SAC-4P- 2,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 2 m
1509490	SAC-4P- 5,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 5 m
1509500	SAC-4P-10,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m
1509513	SAC-4P-15,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 15 m
1509526	SAC-4P-M12MS/ 0,3-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.3 m
1509539	SAC-4P-M12MS/ 0,5-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m
1509542	SAC-4P-M12MS/ 1,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 1 m
1509445	SAC-4P-M12MS/ 2,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 2 m
1509555	SAC-4P-M12MS/ 2,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 2 m
1509458	SAC-4P-M12MS/ 5,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m
1509568	SAC-4P-M12MS/ 5,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 5 m
1509461	SAC-4P-M12MS/10,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m
1509571	SAC-4P-M12MS/10,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 10 m
1509474	SAC-4P-M12MS/15,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 15 m

1509584	SAC-4P-M12MS/15,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 15 m
1507476	SAC-5P- 2,0-920/M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 2 m
1507489	SAC-5P- 5,0-920/M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 5 m
1507492	SAC-5P-10,0-920/M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m
1507502	SAC-5P-15,0-920/M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 15 m
1507528	SAC-5P-M12MS/ 0,3-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.3 m
1507531	SAC-5P-M12MS/ 0,5-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m
1507544	SAC-5P-M12MS/ 1,0-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 1 m
1507421	SAC-5P-M12MS/ 2,0-920	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 2 m
1507557	SAC-5P-M12MS/ 2,0-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 2 m
1507434	SAC-5P-M12MS/ 5,0-920	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m
1507560	SAC-5P-M12MS/ 5,0-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 5 m
1507447	SAC-5P-M12MS/10,0-920	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m
1507573	SAC-5P-M12MS/10,0-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 10 m
1507450	SAC-5P-M12MS/15,0-920	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 15 m
1507586	SAC-5P-M12MS/15,0-920/ M12FS	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 15 m

Marking

0810038	ZBF 12:SO/CMS	Zack marker strip, flat, in 12 mm pitch, printed according to customer requirements, 5-section, divisible, color: white
0809735	ZBF 12:UNBEDRUCKT	Zack strip, flat, unprinted, 5-section, divisible, for labeling by the customer

Plug/Adapter

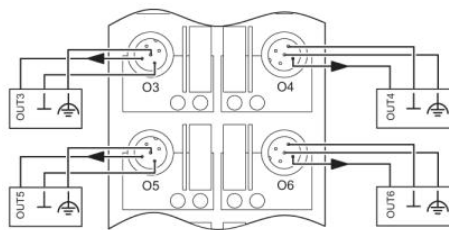
1510722	SAC-4P-M12Y/2X0,3-PUR/M12FS VP	Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded and Socket, straight M12, A-coded, Cable length: 0.3 m
1507816	SAC-5P-M12MS CAN TR	Terminating resistor CANopen/DeviceNet™ M12
1507793	SAC-M12T/2XM12 CAN	Bus system T-connector, 5-pos., DeviceNet™/CANopen, M12 socket to M12 socket and M12 plug
1508365	SACC-M12FS-5CON-PG 9 SH AU	Bus system plug connector, female straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9
1508352	SACC-M12MS-5CON-PG 9 SH AU	Bus system plug connector, male, straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9

Protection and sealing elements

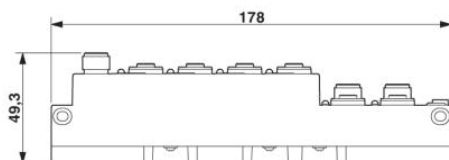
1680539	PROT-M12	An M12 screw plug for the unoccupied M12 sockets of the sensor/ actuator cable, boxes and flush-type connectors
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Diagrams/Drawings

Connection diagram



Dimensioned drawing



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