Fieldline –
the robust I/O technology for field use

Rexroth Fieldline enables on-machine installation with particularly high operational reliability even in harsh environment – thanks to IP67 enclosure rating. User-friendly operation, easy installation and flexible assembly enable I/Os to be connected over shorter wiring distances and without a control cabinet.

Fieldline Modular M8

Thanks to their compact design and the M8 connection system, the Fieldline modules are ideal for connecting sensors and actuators in the immediate vicinity of the process, even under the most difficult mounting conditions. They can be coupled to our Fieldline Modular coupler for PROFIBUS or to an Inline Modular station.

Your benefits
▶ High protection category IP67 for harsh industrial environments
▶ Easy handling
▶ Flexible assembly
▶ Simple operation and application
▶ Quick and convenient diagnosis
▶ Intelligent voltage concept for selective power-off
▶ Fast and perfect installation
▶ Highly reliable operation under extreme ambient conditions
▶ Compact, space-saving design

Rexroth Fieldline – allows reliable I/O signal transmission directly at the machine.

Fieldline Modular M8 – technical data

Technical data	RF-FLM DI 8 M8	RF-FLM DIO 8/4 M8
Digital inputs		
Input description	4 digital inputs	4 digital inputs, 4 digital in-/outputs
Connection technique	2, 3-wire connection	
Number	8	
Protective circuit	Reverse polarity protection	
Filter time	3 ms	
Input characteristic	IEC 61131-2, Type 1	
Input voltage	24 V DC	
Input voltage range, low level	-30 to 5 V DC	
Input voltage range, high level	13 to 30 V DC	
Digital outputs		
Output description	–	Can also be used as inputs
Connection technique	–	2, 3-wire connection
Number of outputs	–	4
Max. output current per channel	–	500 mA
Protective circuit	–	Protective circuit
Output voltage	–	24 V DC
Electrical data		
Supply voltage	24 V DC	
Supply voltage range	18 to 30 V DC, IEC 61131-2 (ripple included)	
Supply current	3 A	
Transmission rate	500 kbaud	
Connection type	M8 connectors	
Ambient conditions		
Ambient temperature (operation)	-25 to +60°C	
Permissible relative humidity (operation)	5 to 95%, no dewing	
Atmospheric pressure (operation)	80 to 106 kPa (up to 2,000 m above sea level)	
Mechanical data		
Dimensions (W x H x D)	29.8 x 143 x 26.5 mm	
Dimensional drawing (see p. 206)	Type 4	Type 4
Weight	137 g	
Drill hole spacing	133 mm	
Mounting type	Mounted to walls	
Test section to peripherals	500 V AC	
Protection category	IP65/67	
Protection class	3, VDE 0106, IEC 60536	

Fieldline Modular M8 bus coupler – technical data

Technical data	RF-FLM BK PB M12 DI 8 M12
Digital inputs	
Connection type	M12 connectors
Connection technique	2, 3, 4-wire
Number of inputs	8
Protective circuit	Reverse polarity protection
Filter time	3 ms
Input voltage	24 V DC
Input voltage range, low level	-30 to 5 V DC
Input voltage range, high level	13 to 30 V DC
Local bus gateway	
Connection type	M12 connectors, B-coded
Transmission rate	500 kbaud
Max. number of local bus users	16
Max. length of local bus	20 m
Interface	
Designation	PROFIBUS
Connection type	2 x M12 connectors, B-coded
Transmission rate	9.64 to 12 Mbaud, autobaud
Electrical data	
Connection technique	M12 connectors
Designation	U_L
Supply voltage	24 V DC
Supply voltage range	18 to 30 V DC, IEC 61131-2 (ripple included)
Ambient conditions	
Ambient temperature (operation)	-25 to 60°C
Atmospheric pressure (operation)	80 to 106 kPa (up to 2000 m above MSL)
Mechanical data	
Dimensions (W x H x D)	70 x 178 x 50 mm
Dimensional drawing (see p. 206)	Type 3
Weight	331 g
Drill hole spacing	168 mm
Mounting type	Mounted to walls
Test section to peripherals	500 V AC
Protection category	IP65/67
Protection class	3, VDE 0106, IEC 60536

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Fieldline –
ordering data

Ordering data Fieldline M8	
Description	**Type code**
Fieldline Modular M8, local bus device, 8 digital inputs, 24 V DC	RF-FLM DI 8 M8
Fieldline Modular M8, local bus device, 8 digital inputs, max. 4 digital outputs, 500 mA, 24 V DC	RF-FLM DIO 8/4 M8
Fieldline Modular bus coupler, PROFIBUS, 8 digital inputs 24 V DC, M12	RF-FLM BK PB M12 DI 8 M12
Ordering data for accessories	
Description	**Type code**
Adapter, M12/M8	RF-FLM ADAP M12/M8
Ordering data for documentation	
Description	**Type code**
Fieldline PROFIBUS, application manual	DOK-CONTRL-RF-FLS-PB**-AWxx-DE-P
Fieldline PROFIBUS, project planning manual	DOK-CONTRL-RF-FLS-PB**-PRxx-DE-P

Technical information and data sheets for Rexroth Fieldline are available from http://www.boschrexroth.de/mediadirectory
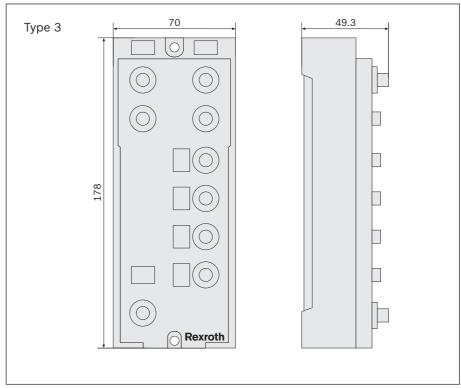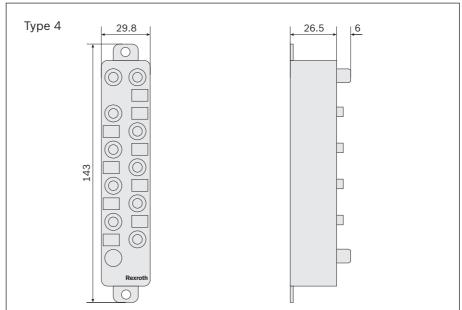
xxx = cable length in meters

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Fieldline Modular M8

Type 3

70   49.3

178

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Type 4

29.8   26.5   6

143

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