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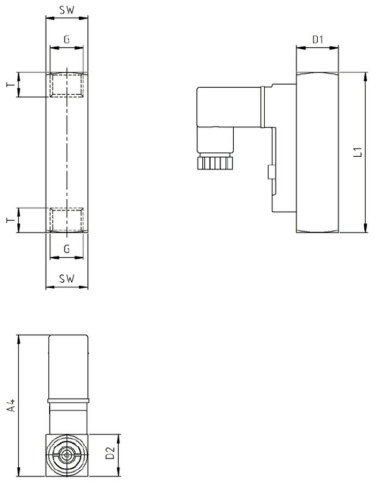
Flow monitor
Series FM01-N



Design type	Flow monitor with reed switch contact, All-metal version, Float measuring principle, pressure-independent, Water scale
Connection	G1/4"...G1"
Materials	Body brass nickel-plated, Internal parts brass, Spring 1.4571, Hard ferrite magnet, Seals NBR
Application range	Water without solid or magnetic particles, other fluids on request
Medium temperature	-20...+100°C
Ambient temperature	-20...+100°C
Switching contact	Normally closed (NC) (Changeover contact as special version)
Switching point adjustment	Switching point adjustment by shifting the switching contact
Accuracy	±10% from the full-scale value
max. operating pressure	250 or rather 300bar see table
Pressure drop	see table
max. voltage	see table
max. current	see table
Power	see table
Degree of protection	IP65 according to EN 60529 with correctly installed cable entry (protection against dust ingress and splashing water)
Mounting	Installation in rigid piping system
Mounting position	any
Scope of delivery	including device socket
Special version	Seals FKM or EPDM, Electrical contact for media temperatures up to 160°C, more contacts, Changeover contact, Switch in ATEX version, Switch with UL approval, IP67 with 1 m molded-on cable or rather Reed switch with M12 connection
Application note	Provide a straight pipe length of 10xDN upstream of the device and 5xDN downstream of the device. Never reduce the pipe diameter upstream of the device. The reed switches used in the switching contacts are, by design, very sensitive to overload. None of the values for voltage, current and power may be exceeded. Appropriate contact protection measures must be implemented depending on the electrical load.

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Dimensions - Reed switch 15x50, connector according to EN175301-803 Form C



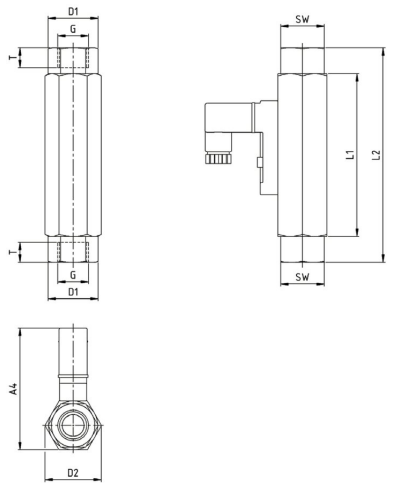
Connection G	Nominal size DN[mm]	A4	D1	D2	L1	T	SW	Weight [approx. g]
G1/4"	8	58	18	18	70	12,5	18	140

Connection	Switching range [l/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G1/4"	0,005...0,06	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-0,06
G1/4"	0,04...0,13	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-0,13
G1/4"	0,1...0,6	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-0,06
G1/4"	0,2...1,2	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-1,2
G1/4"	0,4...2	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-2
G1/4"	0,5...3	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-3
G1/4"	1...5	0,02...0,2	300	AC140 / DC200	AC0,7 / DC1	20	FM01-14-N-5

* The specified switching values apply for decreasing flow, for water with a density of 1 kg/dm3 and for flow from bottom to top. Other densities or other installation situations reduce the accuracy. Special scales for deviating media, operating conditions and installation situations are available on request.
** Switching capacity Changeover contact: AC/DC 150V, 1A, 3...20VA

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Dimensions - Reed switch 15x50, connector according to EN175301-803 Form C

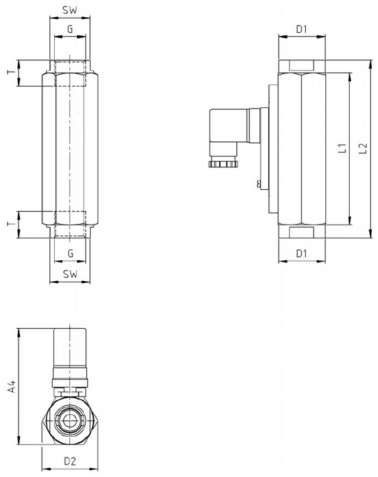


Connection G	Nominal size DN[mm]	A4	D1	D2	L1	L2	T	SW	Weight [approx. g]
G1/4"	8	67	27,7	31,2	90	98	10	24	350
G3/8"	10	67	27,7	31,2	90	118,6	11	24	350
G1/2"	15	67	-	31,2	90	-	14	27	350

Connection	Switching range [l/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G1/4"	0,02...0,2	0,02...0,3	300	230	3	60	FM01-14-N-0,2
G1/4"	0,2...0,6	0,02...0,3	300	230	3	60	FM01-14-N-0,6
G1/4"	0,4...1,8	0,02...0,3	300	230	3	60	FM01-14-N-1,8
G1/4"	0,8...3,2	0,02...0,3	300	230	3	60	FM01-14-N-3,2
G1/4"	2...7	0,02...0,3	300	230	3	60	FM01-14-N-7
G1/4"	3...13	0,02...0,3	300	230	3	60	FM01-14-N-13
G3/8"	0,02...0,2	0,02...0,3	300	230	3	60	FM01-38-N-0,2
G3/8"	0,2...0,6	0,02...0,3	300	230	3	60	FM01-38-N-0,6
G3/8"	0,4...1,8	0,02...0,3	300	230	3	60	FM01-38-N-1,8
G3/8"	0,8...3,2	0,02...0,3	300	230	3	60	FM01-38-N-3,2
G3/8"	2...7	0,02...0,3	300	230	3	60	FM01-38-N-7
G3/8"	3...13	0,02...0,3	300	230	3	60	FM01-38-N-13
G1/2"	0,02...0,2	0,02...0,3	300	230	3	60	FM01-12-N-0,2
G1/2"	0,2...0,6	0,02...0,3	300	230	3	60	FM01-12-N-0,6
G1/2"	0,4...1,8	0,02...0,3	300	230	3	60	FM01-12-N-1,8
G1/2"	0,8...3,2	0,02...0,3	300	230	3	60	FM01-12-N-3,2
G1/2"	2...7	0,02...0,3	300	230	3	60	FM01-12-N-7
G1/2"	3...13	0,02...0,3	300	230	3	60	FM01-12-N-13
G1/2"	4...20	0,02...0,3	300	230	3	60	FM01-12-N-20
G1/2"	8...30	0,02...0,3	300	230	3	60	FM01-12-N-30

* The specified switching values apply for decreasing flow, for water with a density of 1 kg/dm3 and for flow from bottom to top. Other densities or other installation situations reduce the accuracy. Special scales for deviating media, operating conditions and installation situations are available on request.
** Switching capacity Changeover contact: 250V, 1,5A, 3...50VA

Dimensions - Reed switch 30x70, connector according to EN175301-803 Form A



Connection G	Nominal size DN[mm]	A4	D1	D2	L1	L2	T	SW	Weight [approx. g]
G3/4"	20	99	40	47	130	152	15	34	1240
G1"	25	99	-	47	130	-	17	41	1030

Connection	Switching range [l/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G3/4"	10...30	0,02...0,4	250	250	3	100	FM01-34-N-30
G3/4"	15...45	0,02...0,4	250	250	3	100	FM01-34-N-45
G3/4"	20...60	0,02...0,4	250	250	3	100	FM01-34-N-60
G3/4"	30...90	0,02...0,4	250	250	3	100	FM01-34-N-90
G1"	10...30	0,02...0,4	250	250	3	100	FM01-10-N-30
G1"	15...45	0,02...0,4	250	250	3	100	FM01-10-N-45
G1"	20...60	0,02...0,4	250	250	3	100	FM01-10-N-60
G1"	30...90	0,02...0,4	250	250	3	100	FM01-10-N-90
G1"	60...150	0,02...0,4	250	250	3	100	FM01-10-N-150

* The specified switching values apply for decreasing flow, for water with a density of 1 kg/dm3 and for flow from bottom to top. Other densities or other installation situations reduce the accuracy. Special scales for deviating media, operating conditions and installation situations are available on request.
** Switching capacity Changeover contact: 250V, 1,5A, 3...50VA

Electrical connection

Normally closed (NC)	Changeover contact
	

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