

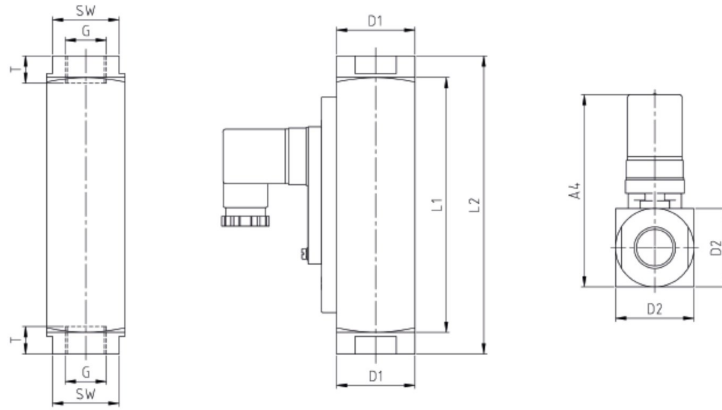
Flow monitor for oils, stainless steel Series FM03-W



Design type	Flow monitor with reed switch contact, All-metal version, Float measuring principle, pressure-independent, viscosity-compensated
Connection	G1/4"...G1"
Materials	Body, internal parts and spring stainless steel 1.4571, Hard ferrite magnet, Seals FKM
Application range	Oil free of solid or magnetic particles
Viscosity	30...600cSt
Medium temperature	-20...+120°C
Ambient temperature	-20...+120°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	300 or rather 350bar 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 NBR 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.



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]
G1/4"	8	98	40	40	130	152	10	34	1500
G1/2"	15	98	40	40	130	152	14	34	1425
G3/4"	20	98	40	40	130	152	15	34	1340
G1"	25	98	40	40	17	130	18,5	40	1160

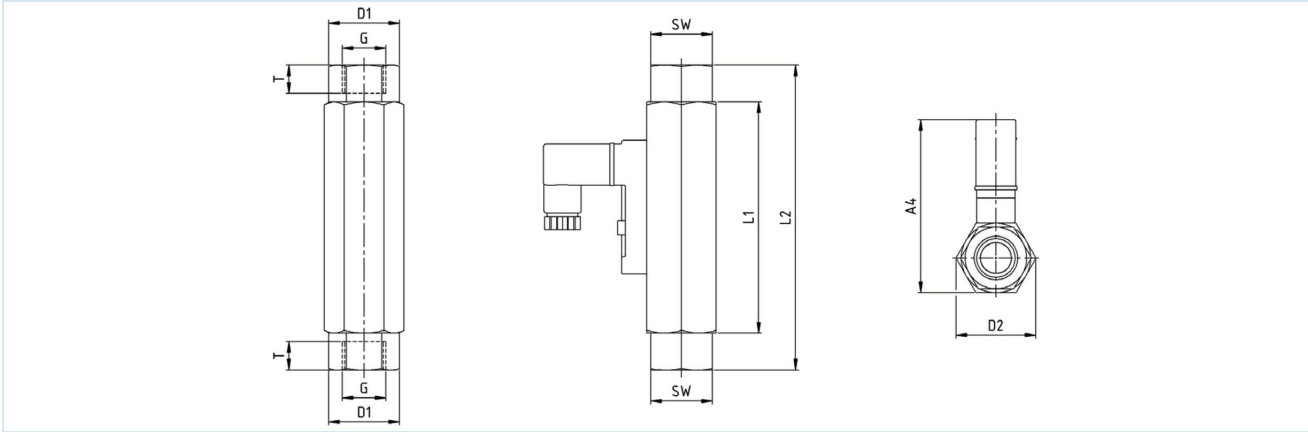
Connection	Switching range [l/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G1/4"	0,5...1,5	0,02...0,4	300	250	3	100	FM03-14-W-1,5
G1/4"	1...4	0,02...0,4	300	250	3	100	FM03-14-W-4
G1/2"	0,5...1,5	0,02...0,4	300	250	3	100	FM03-12-W-1,5
G1/2"	1...4	0,02...0,4	300	250	3	100	FM03-12-W-4
G1/2"	2...8	0,02...0,4	300	250	3	100	FM03-12-W-8
G1/2"	3...10	0,02...0,4	300	250	3	100	FM03-12-W-10
G1/2"	5...15	0,02...0,4	300	250	3	100	FM03-12-W-15
G1/2"	8...24	0,02...0,4	300	250	3	100	FM03-12-W-24
G3/4"	0,5...1,5	0,02...0,4	300	250	3	100	FM03-34-W-1,5
G3/4"	1...4	0,02...0,4	300	250	3	100	FM03-34-W-4
G3/4"	2...8	0,02...0,4	300	250	3	100	FM03-34-W-8
G3/4"	3...10	0,02...0,4	300	250	3	100	FM03-34-W-10
G3/4"	5...15	0,02...0,4	300	250	3	100	FM03-34-W-15
G3/4"	8...24	0,02...0,4	300	250	3	100	FM03-34-W-24
G3/4"	10...30	0,02...0,4	300	250	3	100	FM03-34-W-30
G3/4"	15...45	0,02...0,4	300	250	3	100	FM03-34-W-45
G3/4"	20...60	0,02...0,4	300	250	3	100	FM03-34-W-60
G1"	0,5...1,5	0,02...0,4	300	250	3	100	FM03-10-W-1,5
G1"	1...4	0,02...0,4	300	250	3	100	FM03-10-W-4
G1"	2...8	0,02...0,4	300	250	3	100	FM03-10-W-8
G1"	3...10	0,02...0,4	300	250	3	100	FM03-10-W-10
G1"	5...15	0,02...0,4	300	250	3	100	FM03-10-W-15
G1"	8...24	0,02...0,4	300	250	3	100	FM03-10-W-24
G1"	10...30	0,02...0,4	300	250	3	100	FM03-10-W-30
G1"	15...45	0,02...0,4	300	250	3	100	FM03-10-W-45
G1"	20...60	0,02...0,4	300	250	3	100	FM03-10-W-60
G1"	30...90	0,02...0,4	300	250	3	100	FM03-10-W-90
G1"	35...110	0,02...0,4	300	250	3	100	FM03-10-W-110

* The specified switching values apply for decreasing flow, for oils with a density of 0.9 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 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"	0,5...1,6	0,02...0,2	350	230	3	60	FM03-14-W-1,6
G3/8"	0,5...1,6	0,02...0,2	350	230	3	60	FM03-38-W-1,6
G1/2"	0,5...1,6	0,02...0,2	350	230	3	60	FM03-12-W-1,6
G1/2"	0,8...3	0,02...0,2	350	230	3	60	FM03-12-W-3
G1/2"	0,8...7	0,02...0,2	350	230	3	60	FM03-12-W-7

* The specified switching values apply for decreasing flow, for oils with a density of 0.9 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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