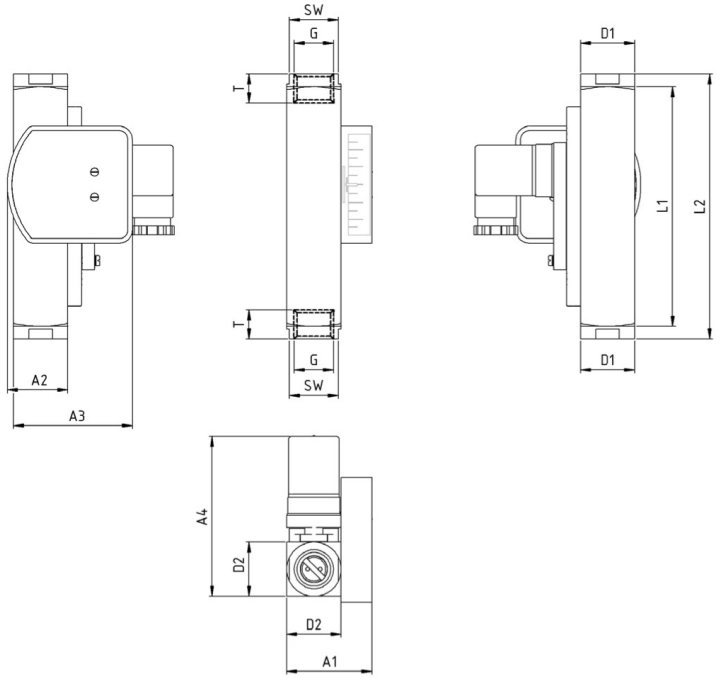
flow monitor with flow indicator
series FM18

design	flow monitors with reed switch, solid metall version, flow indicator, float measure principle, pressure independend, water scale
connection	G1/4"...G1"
materials	body nickel plated brass, inner parts brass respectively nickel plated brass, magnet hard ferrite, seals NBR display not wetted Makrolon/stainless steel AISI 304
application	water without solid or magnetic particles, other liquids on request
medium temperature	-20...+100°C
ambient temperature	-20...+100°C
switch unit	NO contact (change-over contact as special version)
pressure setting	adjustment of the switch point is made by sliding the switch contact
accuracy	±5% from full scale
max. operating pressure	200bar
pressure drop	0,02...0,2bar
max. voltage	250V (change-over contact 250V)
max. current	3A (change-over contact 1,5A)
max. power	100VA (change-over contact 3VA...50VA)
protection class	IP65 according to EN 60529 by correctly mounted cable inlet (protection against dust and splash water)
bracket	installed into rigid pipework
mounting position	vertical
scope of supply	including connector
special version	seals FKM or EPDM, electric contact for media temperatures up to 160°C, change-over contact, switches in ATEX, IP67 with molded cable 1m respectively reed switch with M12 connection
direction for use	a moderating section has to be installed - 10xDN before and 5xDN after the unit. it is not allowed to reduce the tube diameter before the unit. the used reed switches are very sensitive in case of overload. it is not allowed to pass over the limits of voltage, current or power. appropriate contact protection measures are to be implemented depending on the electrical load.

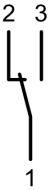
dimensions



connection	nominal diameter DN	switching range [l/min]*	A1	A2	A3	A4	D1	D2	L1	L2	T	SW	weight app. [g]	type
G1/4"	8	0,1...1,5	47	33,5	65,5	88	30	30	117	131	10	27	850	FM18-14-N-1,5
G1/4"	8	0,2...3	47	33,5	65,5	88	30	30	117	131	10	27	850	FM18-14-N-3
G1/4"	8	0,3...8	47	33,5	65,5	88	30	30	117	131	10	27	850	FM18-14-N-8
G1/4"	8	1...12	47	33,5	65,5	88	30	30	117	131	10	27	850	FM18-14-N-12
G3/8"	10	0,1...1,5	47	33,5	65,5	88	30	30	117	131	15	27	850	FM18-38-N-1,5
G3/8"	10	0,2...3	47	33,5	65,5	88	30	30	117	131	15	27	850	FM18-38-N-3
G3/8"	10	0,3...8	47	33,5	65,5	88	30	30	117	131	15	27	850	FM18-38-N-8
G3/8"	10	1...12	47	33,5	65,5	88	30	30	117	131	15	27	850	FM18-38-N-12
G1/2"	15	0,1...1,5	47	33,5	65,5	88	30	30	117	131	14	27	850	FM18-12-N-1,5
G1/2"	15	0,2...3	47	33,5	65,5	88	30	30	117	131	14	27	850	FM18-12-N-3
G1/2"	15	0,3...8	47	33,5	65,5	88	30	30	117	131	14	27	850	FM18-12-N-8
G1/2"	15	1...12	47	33,5	65,5	88	30	30	117	131	14	27	850	FM18-12-N-12
G1/2"	15	2...18	47	33,5	65,5	88	30	30	132	146	14	27	850	FM18-12-N-18
G3/4"	20	2...18	47	33,5	65,5	88	35	30	132	174	15	32	1010	FM18-34-N-12
G3/4"	20	3...35	57	-	70,5	98	40	40	130	152	15	34	1500	FM18-34-N-35
G3/4"	20	4...50	57	-	70,5	98	40	40	130	152	15	34	1500	FM18-34-N-50
G1"	25	3...35	57	-	70,5	98	40	40	156	156	17	40	1500	FM18-10-N-35
G1"	25	4...50	57	-	70,5	98	40	40	156	156	17	40	1500	FM18-10-N-50

* the indicated switching values apply with decreasing flow, for water with a density of 1kg/dm3 and with flow direction from bottom to top.
special scales for different media and operating conditions are available on request.

electrical connection

NO contact	change-over contact
	

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice