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Flow monitor
Series RVM/U-L-VA

Design type	Flow monitor with reed switch contact, all-metal design, float measuring principle, air scale
Connection	G1/4"...G1"
Materials	Body stainless steel 1.4571, internal parts stainless steel 1.4571, spring 1.4571, magnet hard ferrite
Application range	Air free of solid or magnetic particles, other gases on request
Medium temperature	-20...+120°C
Ambient temperature	-20...+120°C
Switching contact	Normally closed (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	350 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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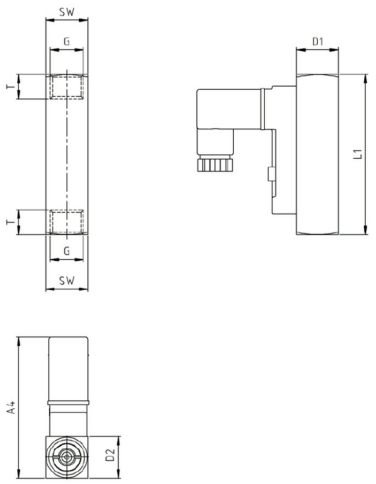
Dimensions - Reed switch 15x50, connector according to EN175301-803 Form C



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 [Nl/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G1/4"	0,6...2,2	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40002-VA
G1/4"	1,7...6	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40006-VA
G1/4"	2,5...8	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40008-VA
G1/4"	3...12	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40012-VA
G1/4"	3...22	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-4/06-VA-L
G1/4"	7...24	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40024-VA
G1/4"	12...34	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-L40034-VA
G1/4"	16...56	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-4/2-VA-L
G1/4"	20...80	0,02...0,2	350	AC140 / DC200	AC0,7 / DC1	20	RVM/U-4/3-VA-L

* Switching range for air at 1 bar absolute and 20°C. The specified switching values apply for decreasing flow and flow from bottom to top. For other inlet pressures and temperatures, different setting ranges apply.
** Switching capacity Changeover contact: AC/DC 150V, 1A, 3...20VA

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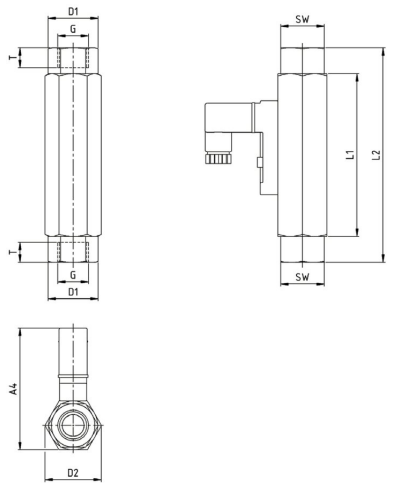
Dimensions - Reed switch 15x50, connector according to EN175301-803 Form C



Connection G	Nominal size DN[mm]	A4	D1	D2	L1	L2	T	SW	Weight [approx. g]
G1/2"	15	67	-	31,2	90	-	14	27	350

Connection	Switching range [Nl/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G1/2"	2,5...10	0,02...0,3	350	230	3	60	RVM/U-L20010-VA
G1/2"	5,5...20	0,02...0,3	350	230	3	60	RVM/U-L20020-VA
G1/2"	8...30	0,02...0,3	350	230	3	60	RVM/U-L20030-VA
G1/2"	10...35	0,02...0,3	350	230	3	60	RVM/U-L20035-VA
G1/2"	45...90	0,02...0,3	350	230	3	60	RVM/U-L20090-VA
G1/2"	55...220	0,02...0,3	350	230	3	60	RVM/U-L20220-VA
G1/2"	65...240	0,02...0,3	350	230	3	60	RVM/U-L20240-VA
G1/2"	80...300	0,02...0,3	350	230	3	60	RVM/U-L20300-VA
G1/2"	140...525	0,02...0,3	350	230	3	60	RVM/U-L20525-VA

* Switching range for air at 1 bar absolute and 20°C. The specified switching values apply for decreasing flow and flow from bottom to top. For other inlet pressures and temperatures, different setting ranges apply.
** Switching capacity Changeover contact: 250V, 1,5A, 3...50VA

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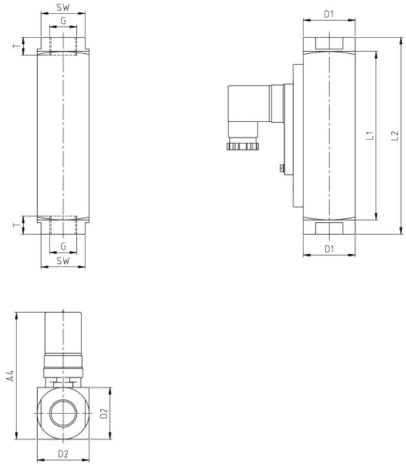
Dimensions - Reed switch 30x70, connector according to EN175301-803 Form A



Connection G	Nominal size DN[mm]	A4	D1	D2	L1	L2	T	SW	Weight [approx. g]
G3/4"	20	99	40	40	130	152	15	34	1320
G1"	25	99	-	40	130	-	17	40	1130

Connection	Switching range [Nl/min]*	Pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	Type
G3/4"	60...180	0,02...0,4	300	250	3	100	RVM/U-L10180-34-VA
G3/4"	100...300	0,02...0,4	300	250	3	100	RVM/U-L10300-34-VA
G3/4"	200...650	0,02...0,4	300	250	3	100	RVM/U-L10650-34-VA
G1"	60...180	0,02...0,4	300	250	3	100	RVM/U-L10180-VA
G1"	100...300	0,02...0,4	300	250	3	100	RVM/U-L10300-VA
G1"	200...650	0,02...0,4	300	250	3	100	RVM/U-L10650-VA

* Switching range for air at 1 bar absolute and 20°C. The specified switching values apply for decreasing flow and flow from bottom to top. For other inlet pressures and temperatures, different setting ranges apply.
** Switching capacity Changeover contact: 250V, 1,5A, 3...50VA

Electrical connection

Normally closed (NC)	Changeover contact

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