

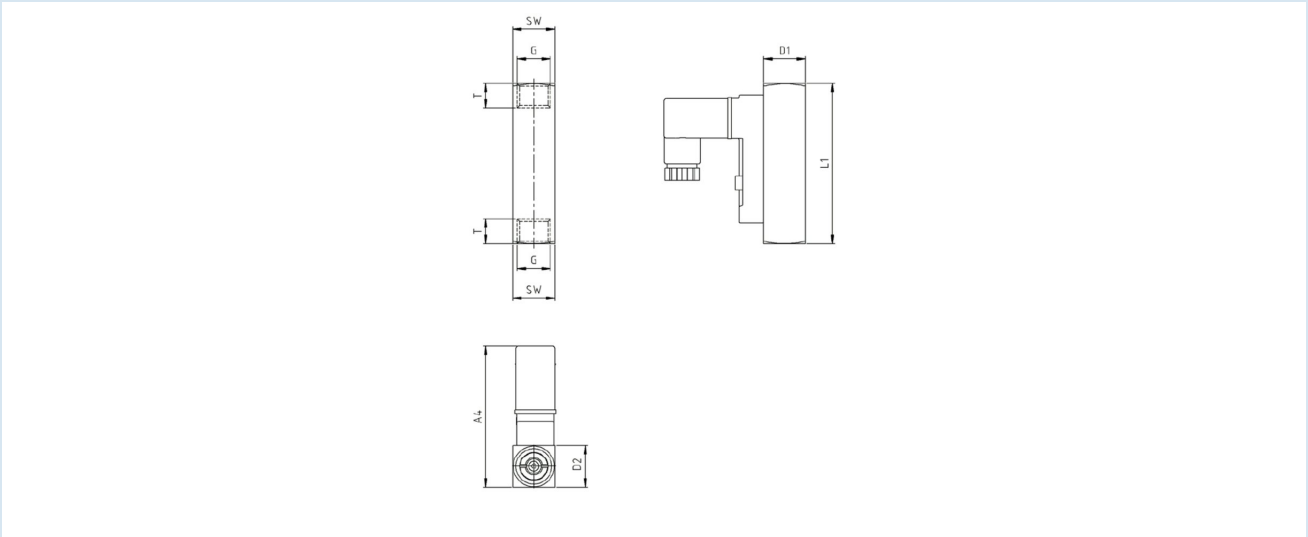
## Stainless steel flow monitor Series RVM/U-VA



|                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type                | Flow monitor with reed switch contact, all-metal design, float measuring principle, pressure-independent, water scale                                                                                                                                                                                                                                                                                                        |
| Connection                 | G1/4"...G1"                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Materials                  | Body, internal parts and spring stainless steel 1.4571, magnet hard ferrite, seals NBR                                                                                                                                                                                                                                                                                                                                       |
| Application range          | Water without solid or magnetic particles, other liquids on request                                                                                                                                                                                                                                                                                                                                                          |
| 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    | 300 or rather 350bar see table                                                                                                                                                                                                                                                                                                                                                                                               |
| Pressure drop              | see table                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Medium temperature         | -20...+100°C                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ambient temperature        | -20...+100°C                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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.<br>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.<br>Appropriate contact protection measures must be implemented depending on the electrical load. |



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



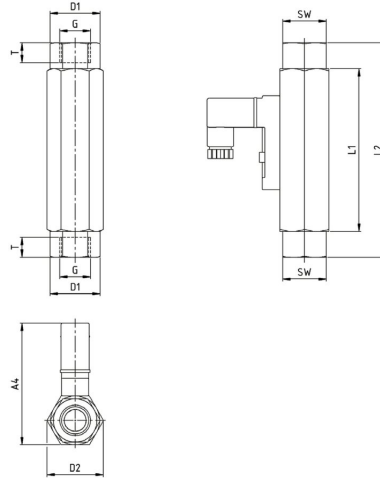
| Connection<br>G | Nominal size<br>DN[mm] | A4 | D1 | D2 | L1 | T    | SW | Weight<br>[approx. g] |
|-----------------|------------------------|----|----|----|----|------|----|-----------------------|
| G1/4"           | 8                      | 58 | 18 | 18 | 70 | 12,5 | 18 | 140                  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

| Connection | Switching range<br>[l/min]* | Pressure drop<br>[bar] | max. operating pressure<br>[bar] | max. voltage<br>[V]** | max. current<br>[A]** | max. power<br>[VA]** | Type          |
|------------|-----------------------------|------------------------|----------------------------------|-----------------------|-----------------------|----------------------|---------------|
| G1/4"      | 0,005...0,06                | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/01-VA |
| G1/4"      | 0,04...0,13                 | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/02-VA |
| G1/4"      | 0,1...0,6                   | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/06-VA |
| G1/4"      | 0,2...1,2                   | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/1-VA  |
| G1/4"      | 0,4...2                     | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/2-VA  |
| G1/4"      | 0,5...3                     | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/3-VA  |
| G1/4"      | 1...5                       | 0,02...0,2             | 350                              | AC140 / DC200         | AC0,7 / DC1           | 20                   | RVM/U-4/5-VA  |

\* 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

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



| Connection<br>G | Nominal size<br>DN[mm] | A4 | D1   | D2   | L1 | L2    | T  | SW | Weight<br>[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                   |

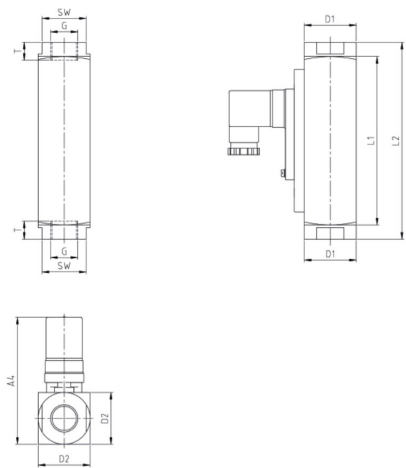
| Connection | Switching range<br>[l/min]* | Pressure drop<br>[bar] | max. operating pressure<br>[bar] | max. voltage<br>[V]** | max. current<br>[A]** | max. power<br>[VA]** | Type             |
|------------|-----------------------------|------------------------|----------------------------------|-----------------------|-----------------------|----------------------|------------------|
| G1/4"      | 0,02...0,2                  | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/02-14-VA |
| G1/4"      | 0,2...0,6                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/06-14-VA |
| G1/4"      | 0,4...1,8                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/1-14-VA  |
| G1/4"      | 0,8...3,2                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/3-14-VA  |
| G1/4"      | 2...7                       | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/7-14-VA  |
| G1/4"      | 3...13                      | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/13-14-VA |
| G3/8"      | 0,02...0,2                  | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/02-38-VA |
| G3/8"      | 0,2...0,6                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/06-38-VA |
| G3/8"      | 0,4...1,8                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/1-38-VA  |
| G3/8"      | 0,8...3,2                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/3-38-VA  |
| G3/8"      | 2...7                       | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/7-38-VA  |
| G3/8"      | 3...13                      | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/13-38-VA |
| G1/2"      | 0,02...0,2                  | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/02-VA    |
| G1/2"      | 0,2...0,6                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/06-VA    |
| G1/2"      | 0,4...1,8                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/1-VA     |
| G1/2"      | 0,8...3,2                   | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/3-VA     |
| G1/2"      | 2...7                       | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/7-VA     |
| G1/2"      | 3...13                      | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/13-VA    |
| G1/2"      | 4...20                      | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/20-VA    |
| G1/2"      | 8...30                      | 0,02...0,3             | 350                              | 230                   | 3                     | 60                   | RVM/U-2/30-VA    |

\* The specified switching values apply for decreasing flow, for water with a density of 1 kg/dm<sup>3</sup> 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

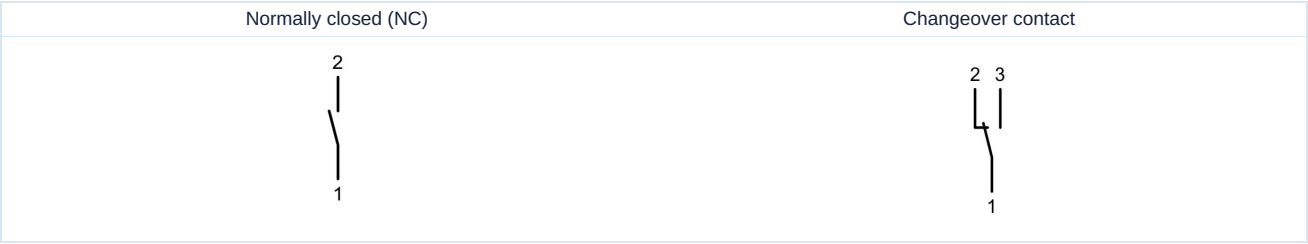


| Connection<br>G | Nominal size<br>DN[mm] | A4 | D1 | D2 | L1  | L2  | T  | SW | Weight<br>[approx. g] |
|-----------------|------------------------|----|----|----|-----|-----|----|----|-----------------------|
| G3/4"           | 20                     | 99 | 40 | 40 | 130 | 152 | 15 | 34 | 1320  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

| Connection | Switching range<br>[l/min]* | Pressure drop<br>[bar] | max. operating pressure<br>[bar] | max. voltage<br>[V]** | max. current<br>[A]** | max. power<br>[VA]** | Type             |
|------------|-----------------------------|------------------------|----------------------------------|-----------------------|-----------------------|----------------------|------------------|
| G3/4"      | 10...30                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/30-34-VA |
| G3/4"      | 15...45                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/45-34-VA |
| G3/4"      | 20...60                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/60-34-VA |
| G3/4"      | 30...90                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/90-34-VA |
| G1"        | 10...30                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/30-VA    |
| G1"        | 15...45                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/45-VA    |
| G1"        | 20...60                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/60-VA    |
| G1"        | 30...90                     | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/90-VA    |
| G1"        | 60...150                    | 0,02...0,4             | 300                              | 250                   | 3                     | 100                  | RVM/U-1/150-VA   |

\* 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



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