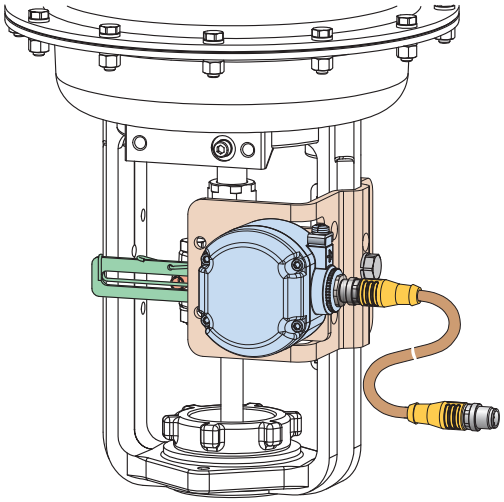
POSITIONERS
Product Specifications

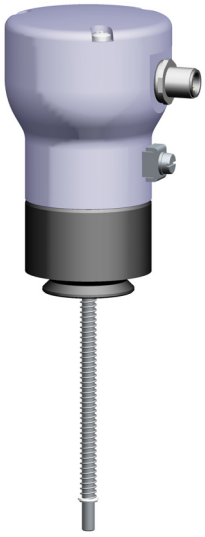
PSS EVE0118

RMU998 Remote Mounting Unit for Intelligent Positioners SRD998, and SRD991 Code V for Side Mounting, Code W for Top Mounting



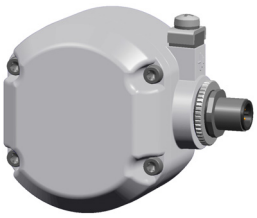
Side Mounting

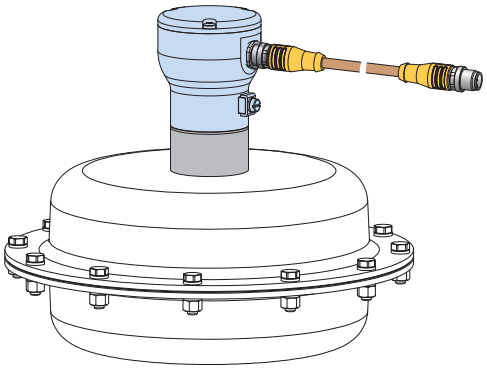
Code V



Top Mounting

Code W





The RMU998 Remote Mounting Unit is the solution for valve/actuator applications in harsh environments, such as operating the valve at very low or very high temperatures and high vibrations.The position of the actuator is determined by an external potentiometer in the RMU998 and transmitted to the positioner which is mounted in a protected environment.

FEATURES

- Robust Plastic Conductive Potentiometer
- Versions for Side or Top Mounting to actuator
- Housing in Aluminum
- Ambient Temperature –40°C to +85°C
- Electrical Certification Ex ia, Intrinsic safety
- Ingress Protection IP66 (for Code V)

SPECIFICATIONS CODE V

Principle	5 kOhm, 3 wires Plastic Conductive Potentiometer
Housing material	Aluminum
Rotation angle	up to 95° (±47.5°) up to 120° (± 60°) on request
Connector	M12, with 5 pins
Cable length	3 m (10 m)
For use with	SRD998, SRD991
Ambient Temperature	–40°C to +85°C, other ranges see Model Code
Ingress Protection	IP66
Vibration resistance	<0.25% for 10 to 500 Hz up to 4g acc. IEC 60068-2-6 (2007)

Electrical Certification

The electrical certification of the RMU998 is linked with the certificate of the SRD998 or SRD991. If you connect the RMU998 with another positioner than SRD998 or SRD991, no certification exists. Then order the RMU998 unit with Electrical Certification ZZ = without certification.

ELECTROMAGNETIC COMPATIBILITY EMC

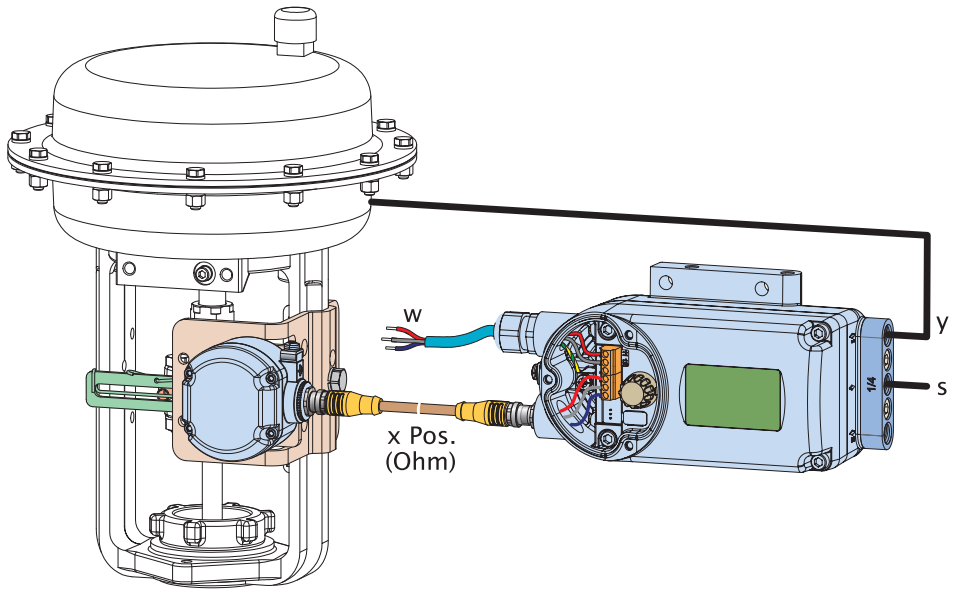
Operating conditions	**Industrial environment**
Immunity according to ▸ EN 61326 ▸ IEC 61326 ▸ EN 61000-6-2	 Fulfilled Fulfilled Fulfilled
Emission according to EN 61326 Class A and Class B	Fulfilled
EN 61000-6-4	Fulfilled
EN 55011 Group 1 Class A and Class B	Fulfilled
NAMUR recommendation EMV NE21	Fulfilled

FUNCTION

The external Potentiometer RMU998 is side mounted to the actuator and electrical connected to the positioner.

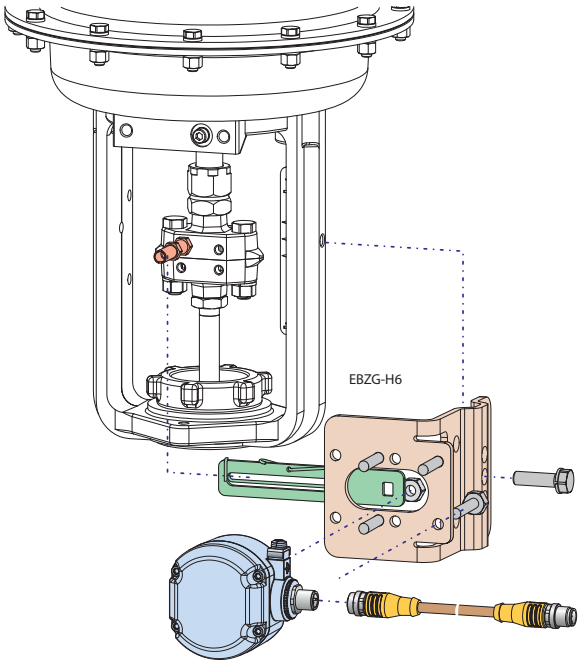
So, the positioner can be mounted in a less stressed environment (we recommend at very high or low temperature and vibration influence).

Figure 1. DESIGN, CODE V



For more information, see PSS EVE0602.

Figure 2. MOUNTING TO LINEAR ACTUATORS



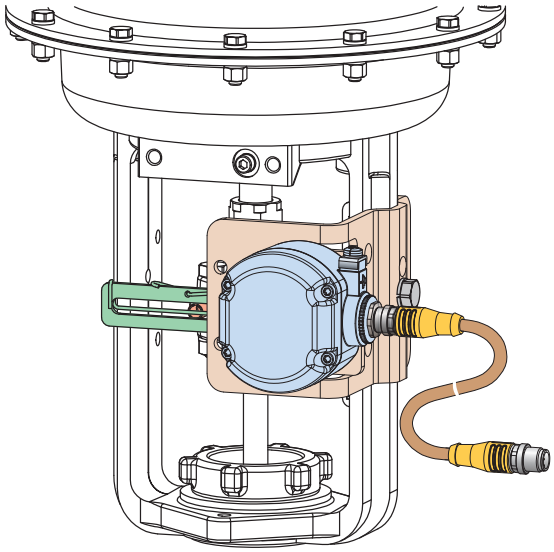


Figure 3. MOUNTING TO ROTARY ACTUATORS

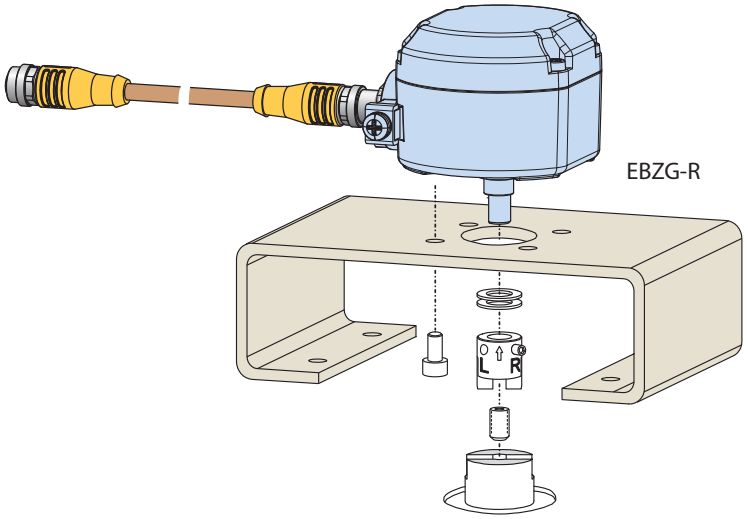


Figure 4. TYPICAL APPLICATION, CODE V

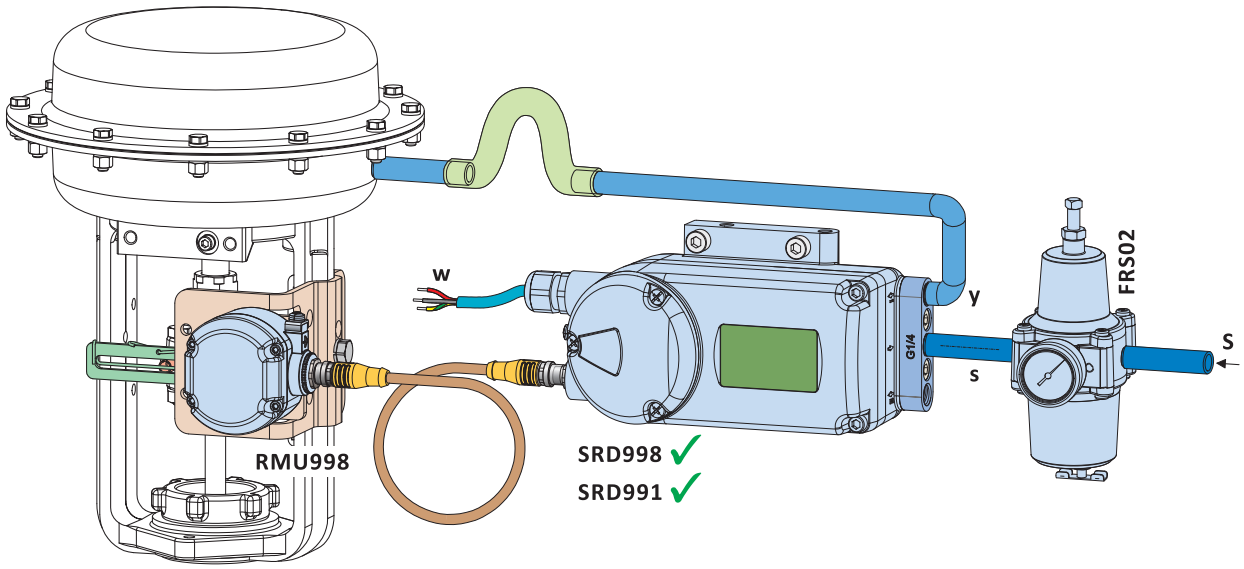
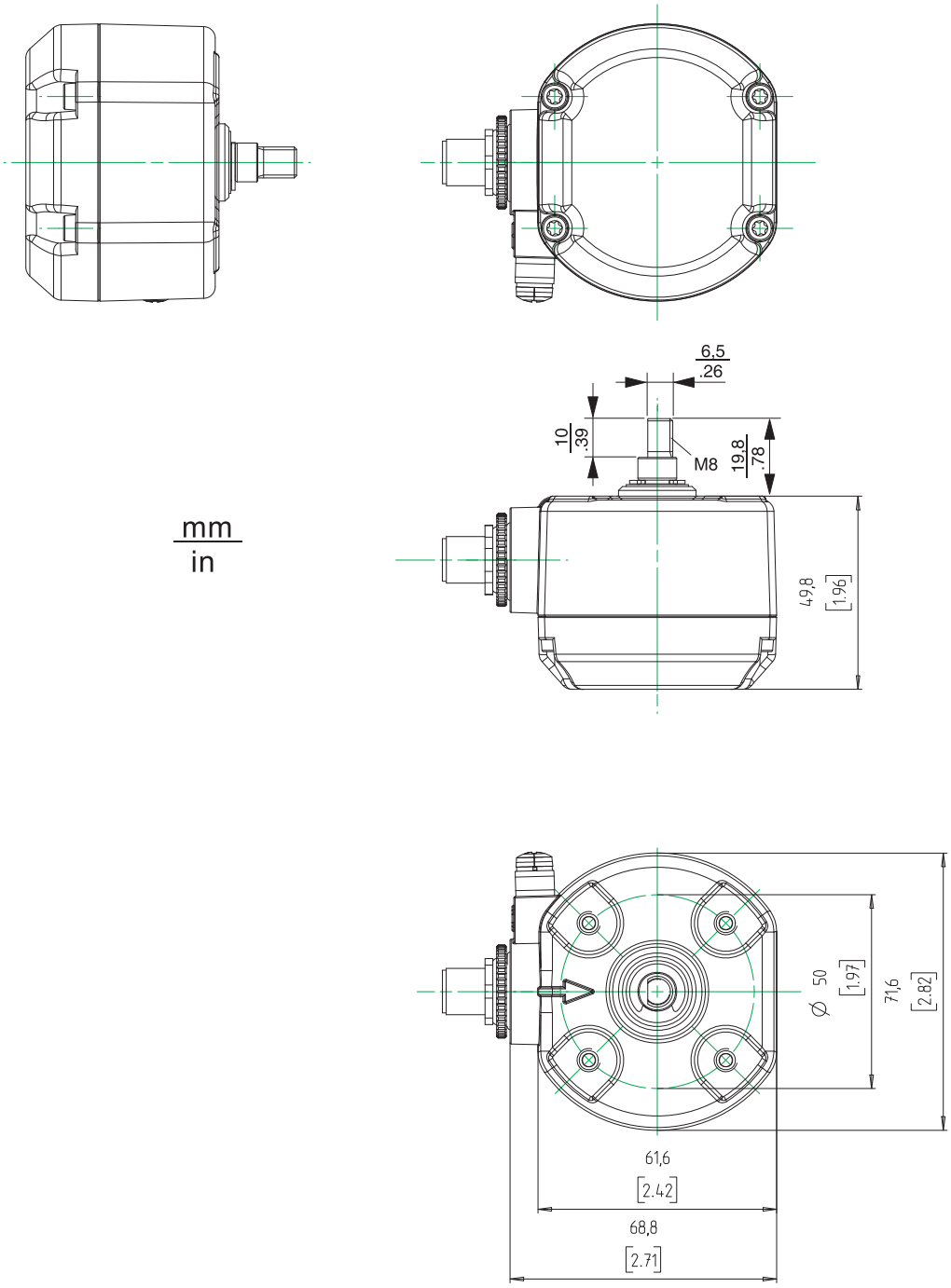


Figure 5. DIMENSIONS FOR SIDE MOUNTING, CODE V



SPECIFICATIONS CODE W

Principle	5 kOhm, 3 wires Plastic Conductive Potentiometer
Housing material	Aluminum
Stroke	up to 50mm (2 inch) (a)
Connector	M12, with 5 pins
Cable length	3 m (10m)
For use with	SRD998, SRD991
Ambient Temperature	–40°C to +85°C, other ranges see Model Code
Vibration resistance	<0.25% for 10 to 500 Hz up to 4g acc. IEC 60068-2-6 (2007)

a. The physical stroke of the sensor is ~53mm. For proper functioning we recommend to use only the inner 50mm.

Electrical Certification

The electrical certification of the RMU998 is linked with the certificate of the SRD998 or SRD991. If you connect the RMU998 with another positioner than RD998 or SRD991, no certification exists. Then order the RMU998 unit with Electrical Certification ZZ = without certification.

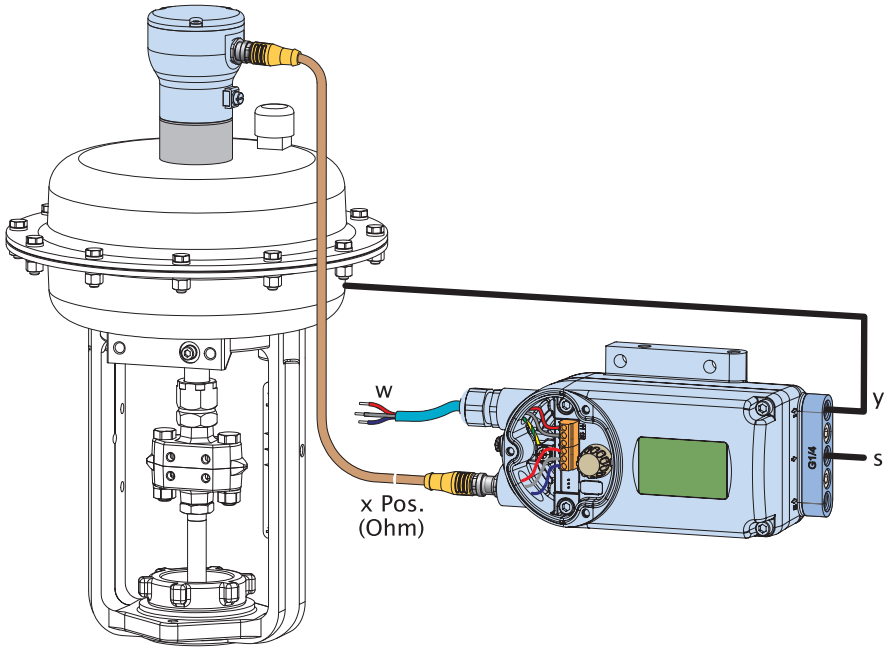
Electromagnetic Compatibility EMC

Operating conditions	Industrial environment
Immunity according to ▸ EN 61326 ▸ IEC 61326 ▸ EN 61000-6-2	 Fulfilled Fulfilled Fulfilled
Emission according to EN 61326 Class A and Class B	Fulfilled
EN 61000-6-4	Fulfilled
EN 55011 Group 1 Class A and Class B	Fulfilled
NAMUR recommendation EMV NE21	Fulfilled

FUNCTION

The external Potentiometer RMU998 is top mounted to the actuator and electrical connected to the positioner. So, the positioner can be mounted in a less stressed environment (we recommend at very high or low temperature and vibration influence).

Figure 6. DESIGN, CODE W



USABILITY

The upper chamber must be depressurized.

Figure 7. USABILITY

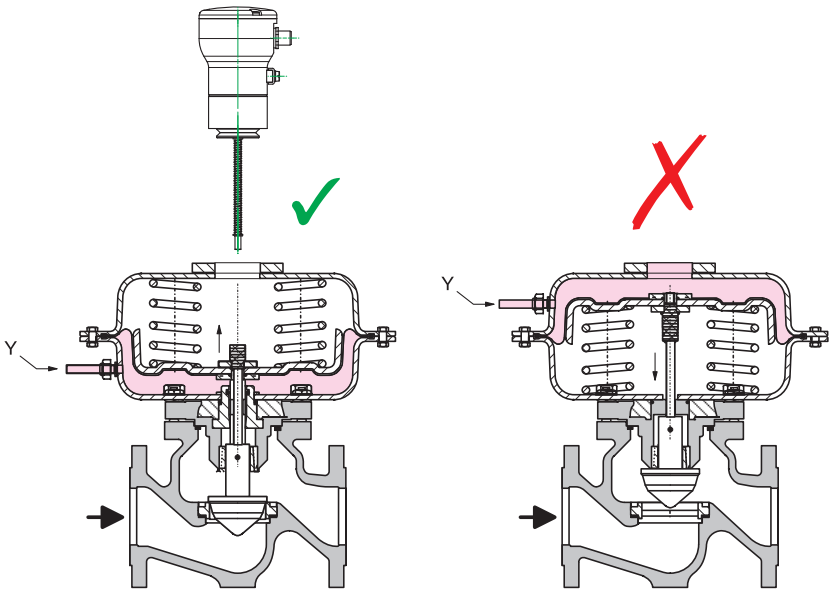


Figure 8. SELECTING ADAPTERS AND PROBE TIPS

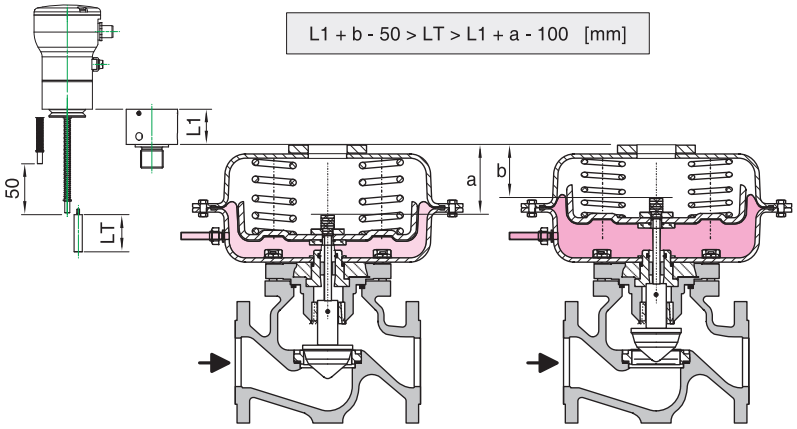


Figure 9. MOUNTING COMBINATIONS

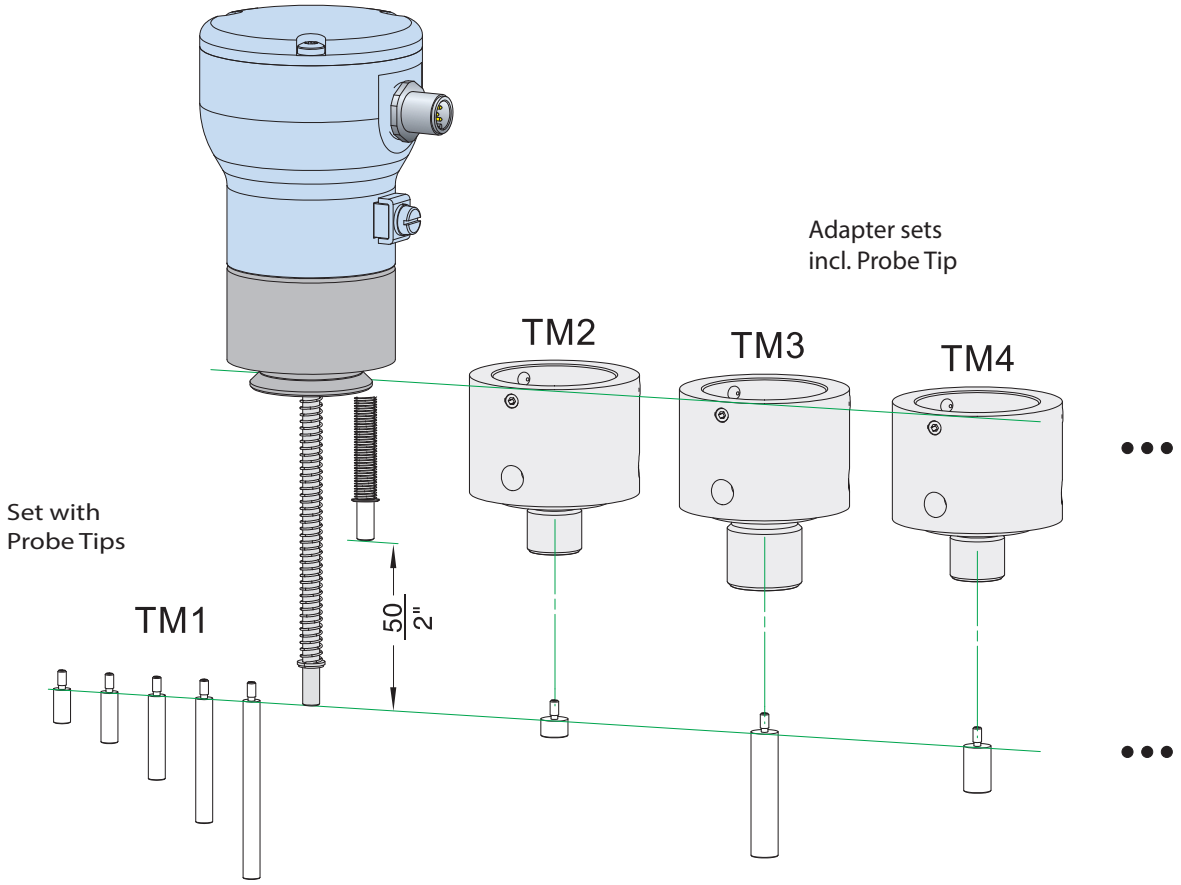
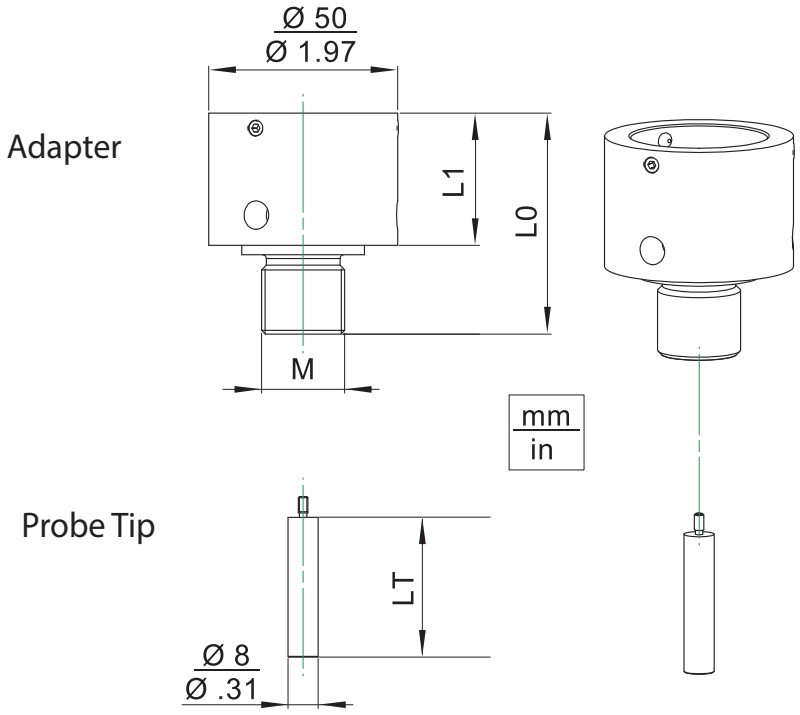


Figure 10. MAIN DIMENSIONS AND APPLICATIONS Adapters and Probe Tips



Assembly Name EBZG-... designed for ...	**Adapter**			**Probe Tips**
	Thread M	**L0 mm/inch**	**L1 mm/inch**	**LT mm/inch**
TM1 GFischer	(TM1 includes a set of Probe Tips but no Adapter)			12.5/0.49 25/0.98 37/1.46 53/2.09
TM2 GEMÜ-1	M16x1	52.5/2.07	35/1.38	5/0.2
TM3 GEMÜ-2	M22x1.5	58.5/2.3	35/1.38	37/1.46
TM4 FIP	M16x1	52.5/2.07	35/1.38	12.5/0.49
TM5 ASCO	M17x1	52.5/2.07	25/0.98	12.5/0.49
TM6 OMAL	M27x1.5	45.7/1.8	29/1.14	12.5/0.49
TM7 Bürkert	M26x1.5	70.5/2.77	55/2.16	5/0.2
TM8 Asahi	M12	84/3.3	64.5/2.54	5/0.2

DIMENSIONS

Figure 11. DIMENSIONS Adapters and Probe Tips

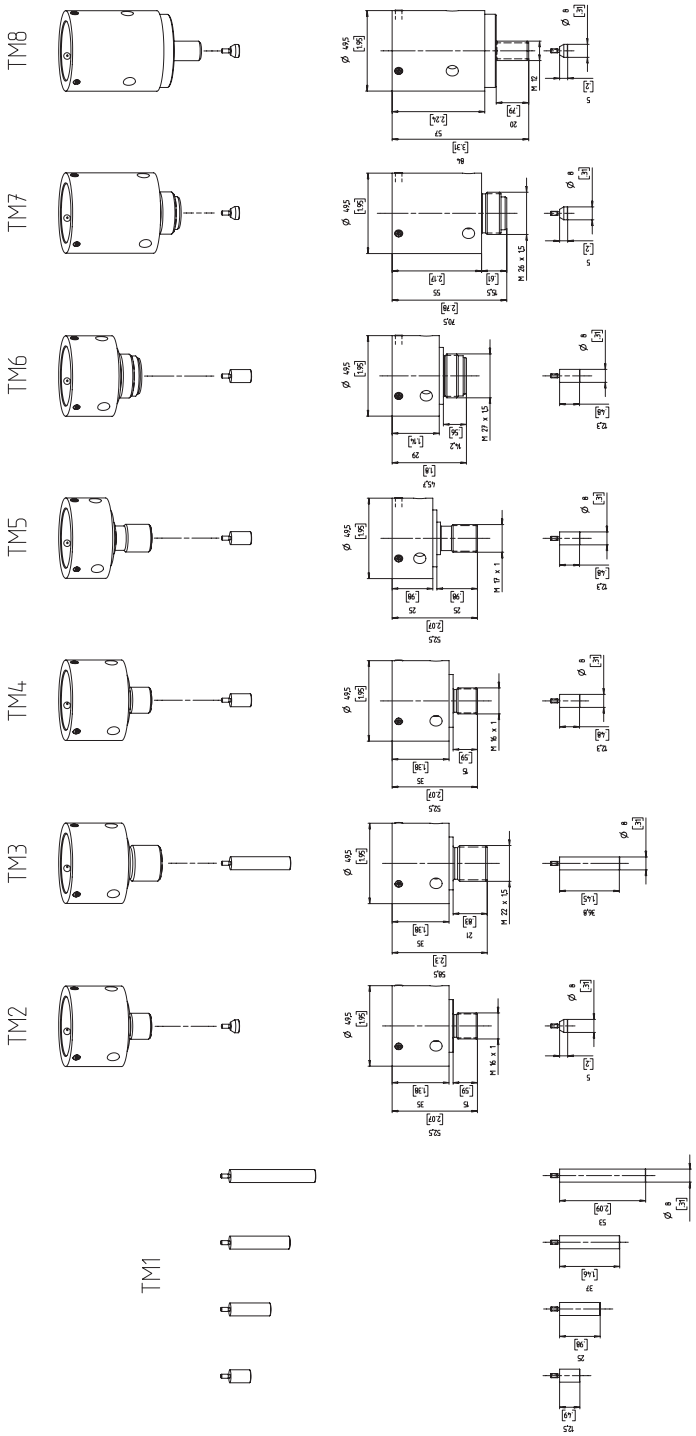


Figure 12. TYPICAL APPLICATION, CODE W

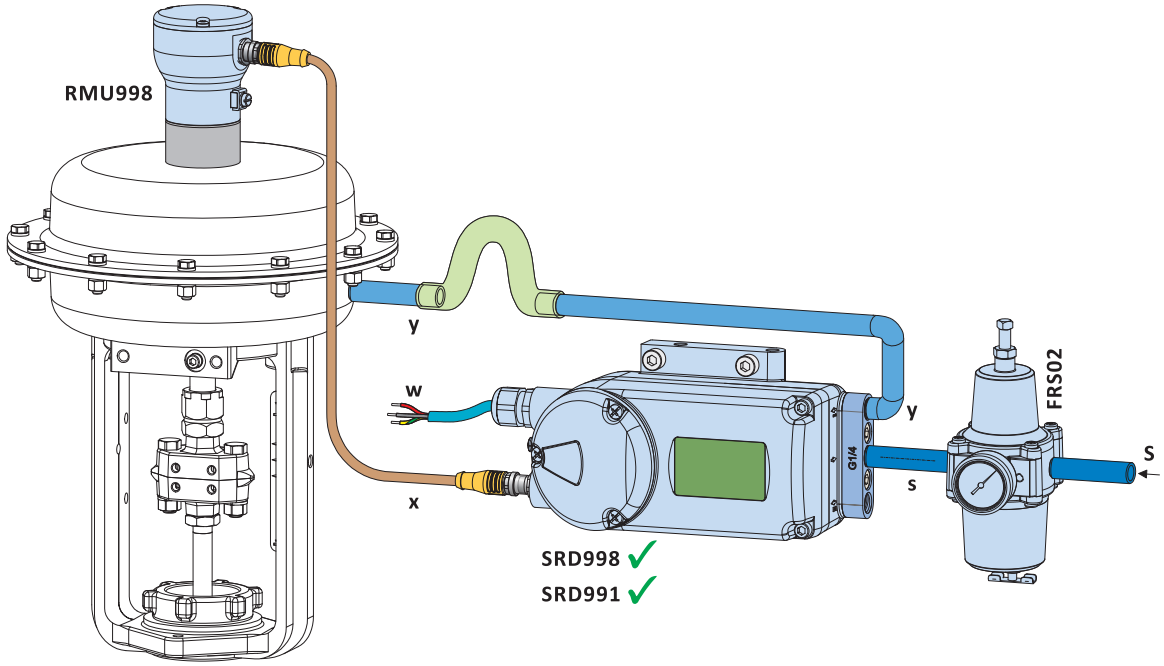
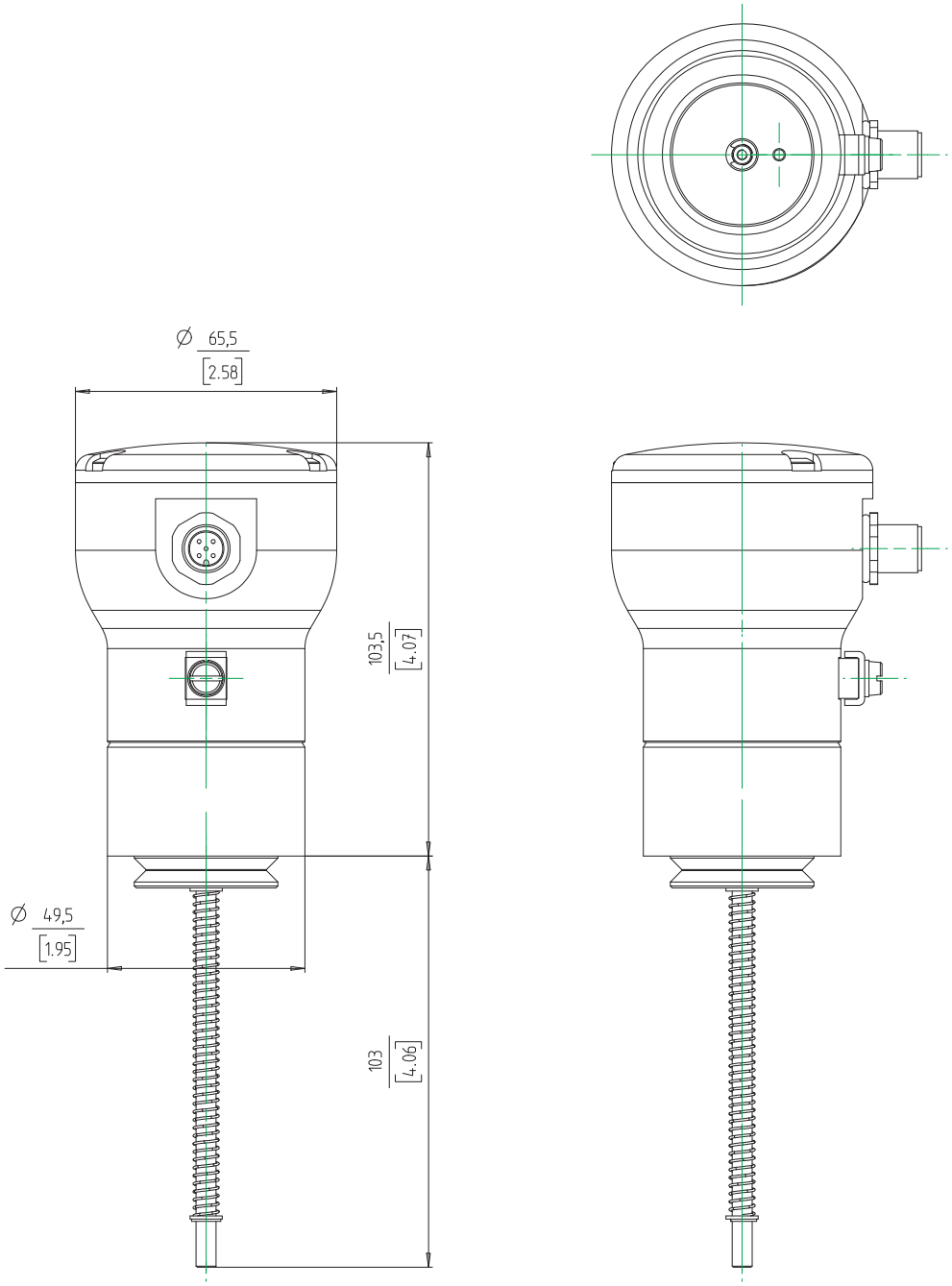


Figure 13. DIMENSIONS for TOP MOUNTING, Code W



MODEL CODE RMU998

Remote Mounting Unit for Intelligent Positioner SRD99x RMU998	Model
Remote Unit Type	
Side mounting remote potentiometer unit	V
Top mounting remote potentiometer unit	W
Housing	
Aluminum housing	A
Cable Length	
with 3 m cable length	1
Temperature Range	
for –40 to +85°C ambient Temperature	S
Electrical Connection	
with M12 cable gland connector	8
Electrical Certification	
without certification as simple component (not paired)	ZZ
without certification, paired with SRD998	Z1
without certification, paired with SRD991	Z2
ATEX/IECEx Linked with SRD998 Certificate	A1
ATEX/IECEx Linked with SRD991 Certificate	A2
NEPSI Linked with SRD998 Certificate	N1
INMETRO Linked with SRD998 Certificate	B1
INMETRO Linked with SRD991 Certificate	B2

NOTICE

RISK OF DATA LOSS AND REDUCED PERFORMANCE

We recommend you to purchase the SRD998 or SRD991 with the corresponding RMU998 linked together.

If the RMU998 is ordered with an SRD998 or SRD991 together, the RMU and SRD are calibrated (paired) in the factory to allow optimal performance.

In other cases, when the units are ordered separately, the combination does not give the expected performance.

Failure to follow these instructions can result in reduced performance.

Figure 14. TYPICAL APPLICATION, CODE W

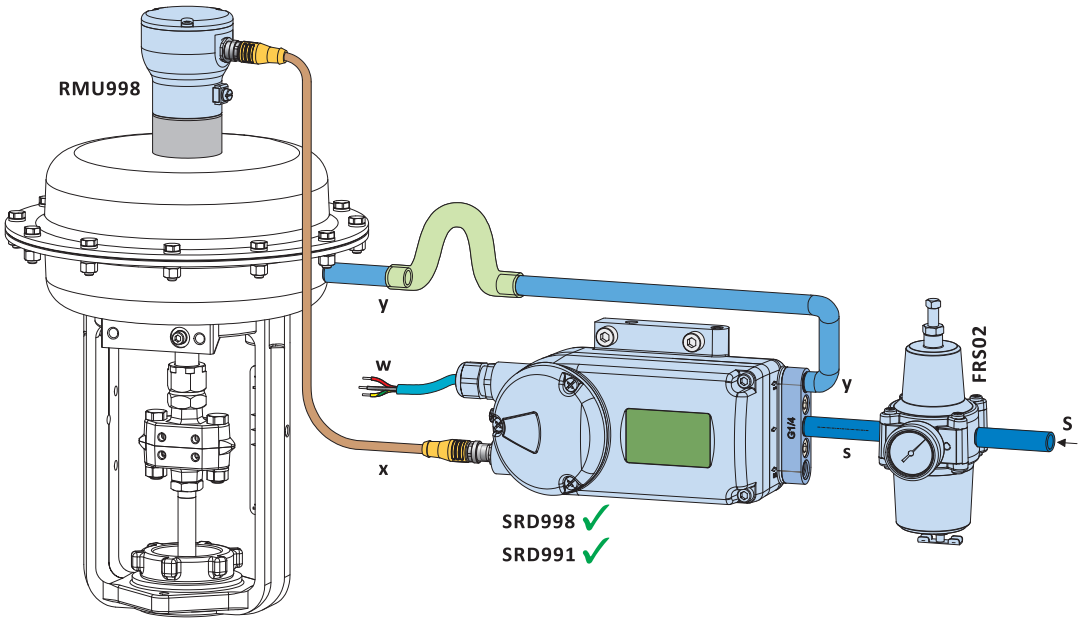
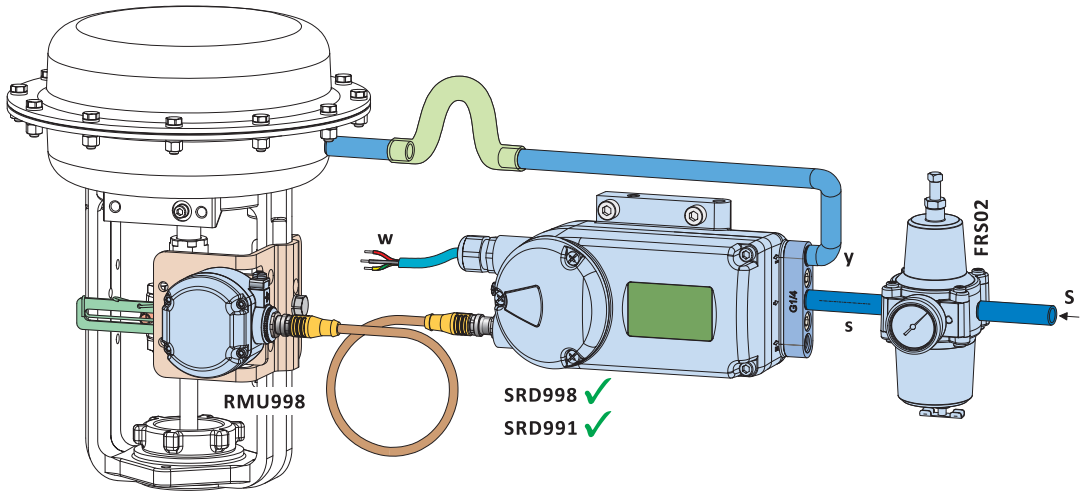


Figure 15. TYPICAL APPLICATION, CODE V



NOTES

ADDITIONAL PRODUCTS

These product lines offer a broad range of measurement and instrument products, including solutions for pressure, flow, analytical, temperature, positioning, controlling, and recording. For a list of these offerings, visit our web site at:

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