

STS-11/STS-17/STS-23

STRAIN SENSORS WITH STRAIN GAUGE TECHNOLOGY

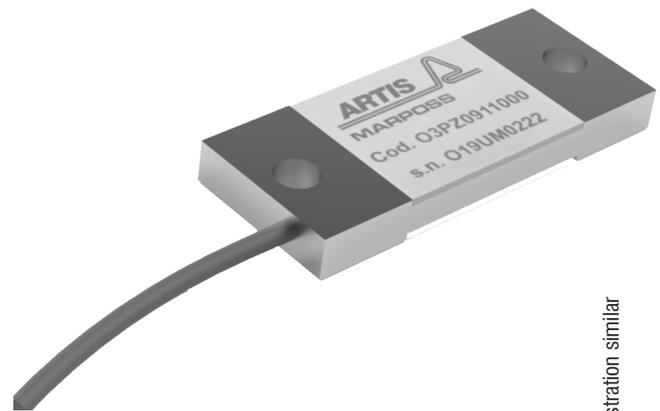
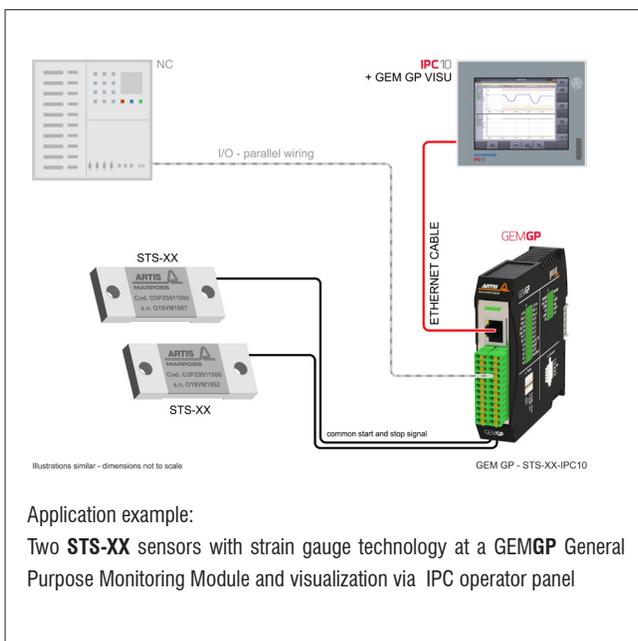


Illustration similar



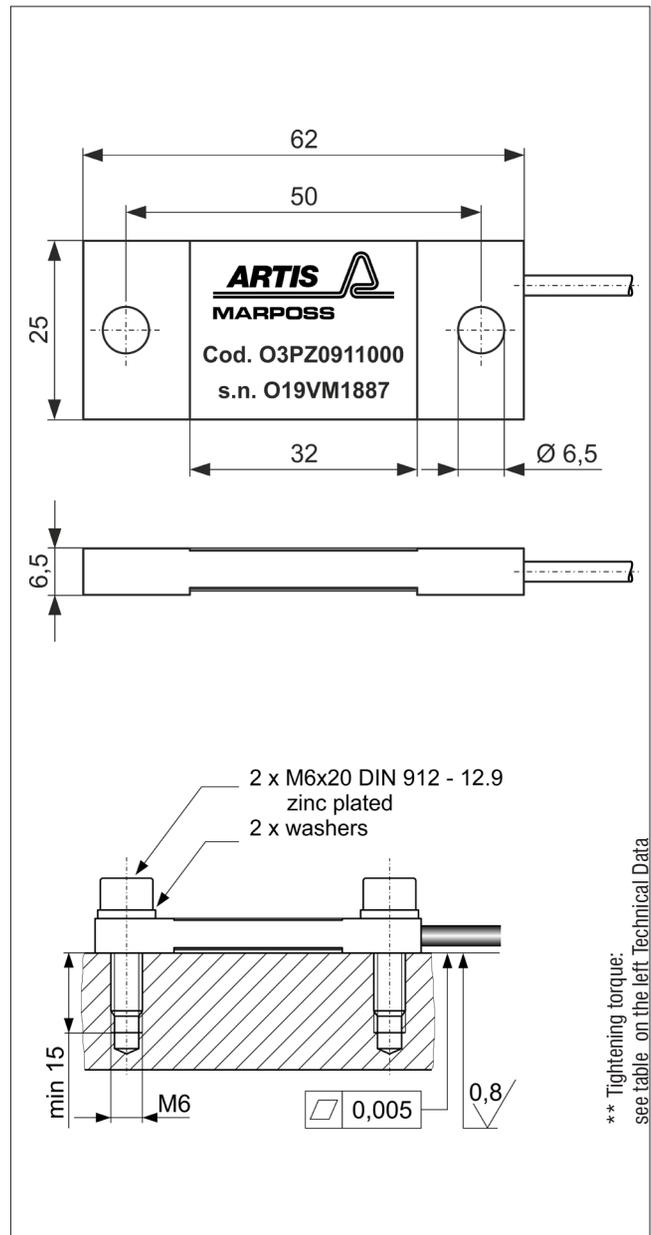
Properties

- High sensitivity
- Strain measurement with strain gauge technology
- Suitable for long cutting processes
- Two product variants: available in aluminum or steel
- Temperature compensation* for steel and aluminum, see table on the following page
- Simple mounting with screw fixation
- Connection to BA-01 or **GEMGP**

VARIANTS	
STS-23 AVIONAL 2024, 10 M, EU	O3PZ0911000 made of aluminum alloy
STS-17 A304, 10M, EU	O3PZ0911002 made of stainless steel
STS-11 AISI630, 10M, EU	O3PZ0911001 made of stainless steel

	STS-23	STS-17	STS-11
MESURING RANGE	±500µε	±200µε	
MAXIMUM LOAD LIMIT	±700µε	±700µε	
OPERATING TEMPERATURE	0 °C ... +60 °C		
THERMAL DRIFT*	* see page 1 <i>Properties</i>		
COMPENSATION (10 °C ... 50 °C) <i>if mounted on a surface with a thermal expansion coefficient of ...</i>	→ 2.5 µε ... 23 ppm	→ 1 µε ... 17 ppm	→ 1 µε ... 11 ppm
SENSITIVITY	~ 1 mV/V	~ 0,35 mV/V	
LINEARITY	1 % f.s.		
INPUT IMPEDANCE	359 Ω		
OUTPUT IMPEDANCE	359 Ω		
TIGHTENING TORQUE**	6 Nm	10 Nm	
WEIGHT	30 g	80 g	
SENSOR MATERIAL	Avional 2024	A304	AISI630 (17-4 PH®)
DIMENSIONS	see drawing		
CABLE MATERIAL	EU polyurethane-polyether		
CABLE LENGTH / CABLE Ø	10 m / 2.8 mm		
DEGREE OF PROTECTION	IP67		
SCOPE OF SUPPLY	Sensor Sensor cable (10 m) 2 washers 2 screws M6 x 20 class 12.9, zinc plated		
CONFORMITY	CE, UKCA		

	Color	Description
SENSOR CONNECTION	blue	Supply voltage -
	white	Signal -
	green	Signal +
	red	Supply voltage +
	black	Shield



** Tightening torque:
see table on the left Technical Data



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For a full list of address locations, please consult the Marposs official website

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