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ARTIS

STS-11/STS-17/STS-23

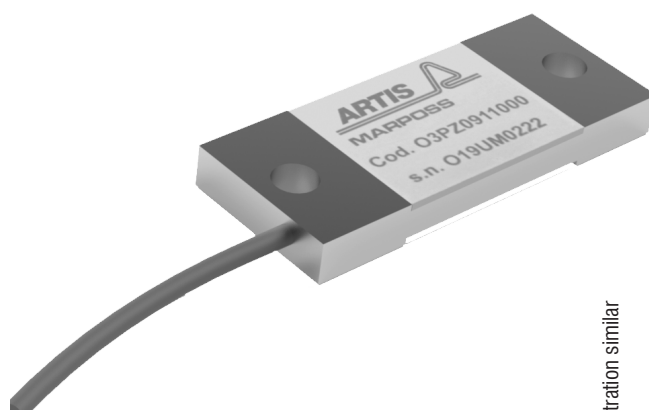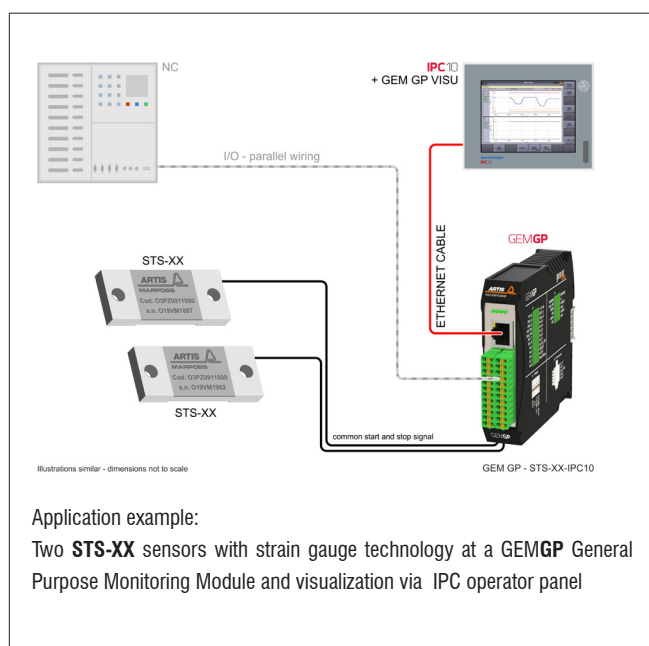## STRAIN SENSORS WITH STRAIN GAUGE TECHNOLOGY

Illustration similiar

Application example:
Two **STS-XX** sensors with strain gauge technology at a GEM**GP** General Purpose Monitoring Module and visualization via IPC operator panel
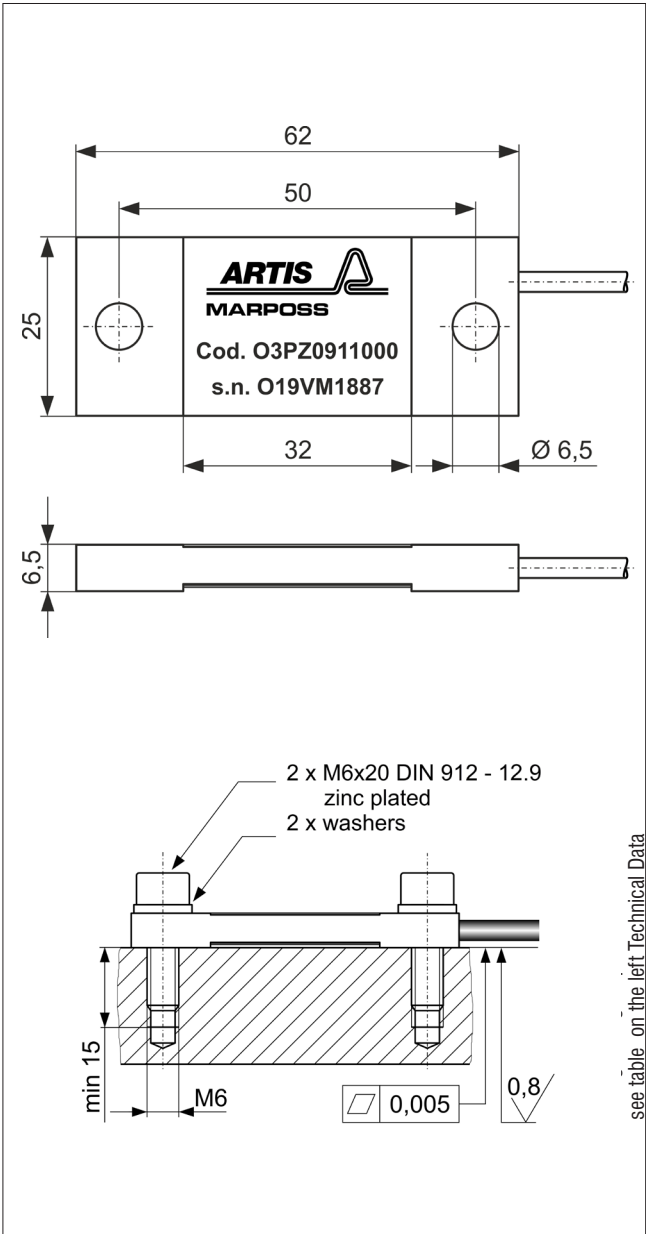
Properties

- 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 aluminun, see table on the following page
- Simple mounting with screw fixation
- Connection to BA-01 or GEM**GP**

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 *Properties*		
COMPENSATION (10 °C ... 50 °C) *if mounted on a surface with a thermal expansion coefficient of ...*	→ 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

62
50
25
Cod. O3PZ0911000
s.n. O19VM1887
32
Ø 6,5
6,5

2 x M6x20 DIN 912 - 12.9 zinc plated
2 x washers
min 15
M6
0,005
0,8

see table on the left Technical Data

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Marposs has an integrated system for Company quality, environmental and safety management, with ISO 9001, ISO 14001 and OHSAS 18001 certification.

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