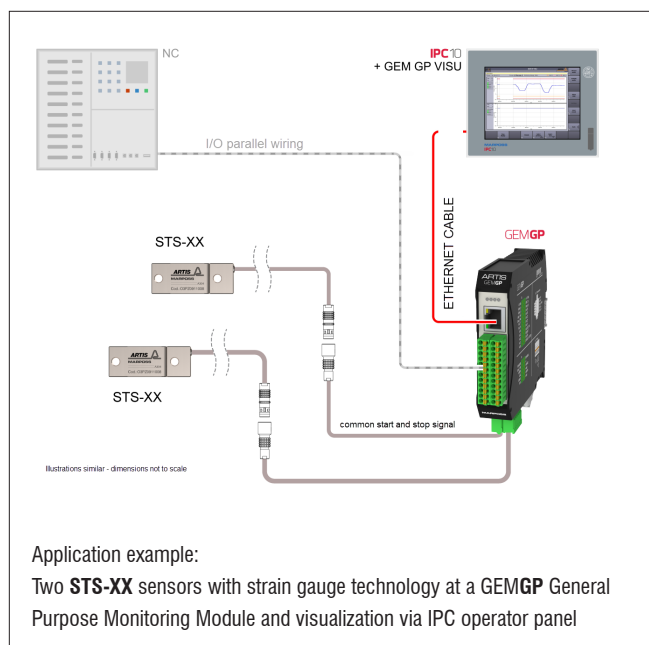


STS-11/STS-17

STRAIN SENSORS WITH STRAIN GAUGE TECHNOLOGY



Illustration similar



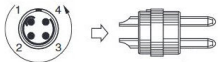
Properties

- High sensitivity
- Strain measurement with strain gauge technology
- Suitable for long cutting processes
- Two product variants: available in A304 and AISI630 (17-4 PH®)
- Temperature compensation*
see table on the
- following page
- Simple mounting with screw fixation
- Connection to **GEMGP** via connection cable

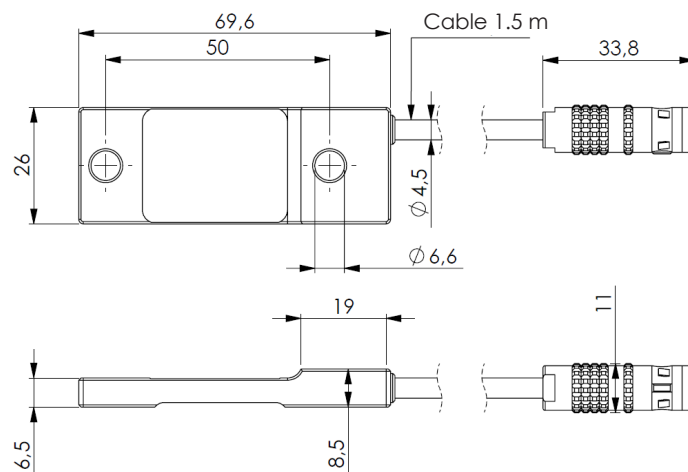
VARIANTS	
STS-11 AISI630 1.5M LMK0	O3PZ0911007 stainless steel
STS-17 A304 1.5M LMK0	O3PZ0911008 stainless steel

CONNECTING CABLE	
STS CABLE EXT 8.5 LMK0	O6739797349
STS CABLE EXT 18.5 LMK0	O6739797348

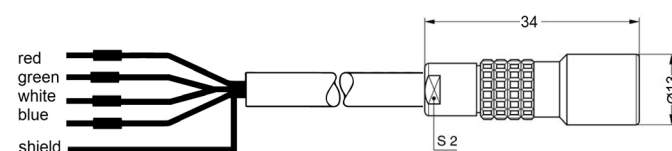
	STS-17	STS-11
MEASURING RANGE	$\pm 200 \mu\epsilon$	
MAX. LOAD LIMIT	$\pm 700 \mu\epsilon$	
OPERATING TEMPERATURE	0 °C ... +60 °C	
THERMAL DRIFT*	* see page 1 Properties	
COMPENSATION (10 °C ... 50 °C) if mounted on a surface with a thermal expansion coefficient of ...	$\rightarrow 1 \mu\epsilon$... 17 ppm	$\rightarrow 1 \mu\epsilon$... 11 ppm
SENSITIVITY	$\sim 0,35 \text{ mV/V}$	
LINEARITY	1 % f.s.	
INPUT IMPEDANCE	359 Ω	
OUTPUT IMPEDANCE	359 Ω	
TIGHTENING TORQUE**	10 Nm	
WEIGHT	80 g	
SENSOR MATERIAL	A304	AISI630 (17-4 PH®)
DIMENSIONS	see drawing	
CABLE MATERIAL	EU polyurethane-polyether	
CABLE LENGTH / CABLE-Ø	1.5 m / 4.6 mm	
DEGREE OF PROTECTION	IP67	
SCOPE OF SUPPLY	Sensor with sensor cable (1.5 m) and Lemo connector 2 washers 2 screws M6 x 20 class 12.9, zinc plated	
CONFORMITY	CE, UKCA	

PIN ASSIGNMENT OF THE CONNECTOR TYPE: LEMO FGG.0K.304.CLAC45	PIN	Color	Description
	1	red	Supply voltage +
	2	green	Signal +
	3	white	Signal -
	4	blue	Supply voltage -
		shield	Shield
Solder contacts			
			

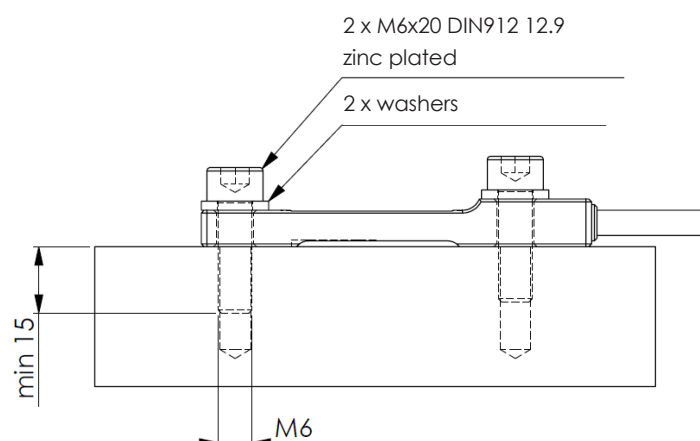
Connector



Socket



Sensor mounting



** 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

ODN6403EN05 – Edition 01/2025 – Specifications are subject to modifications
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