



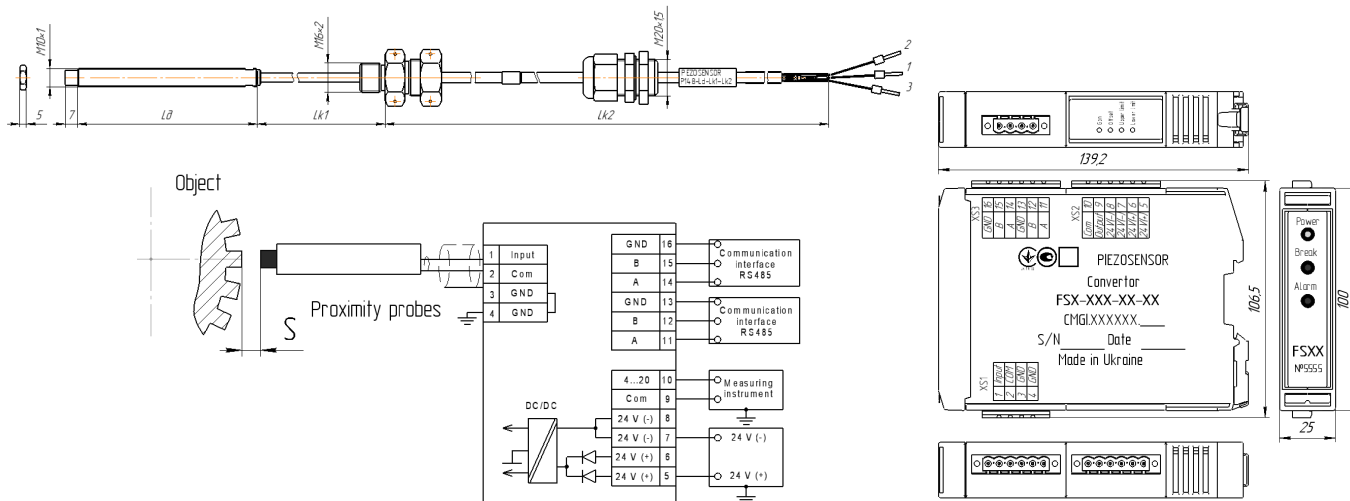
VELOCITY CONVERTERS

P/FST



UA.TR.001

Converters P/FST (Tachometers) are designed to convert displacement into a current signal and rotation frequency of shafts containing gears made of ferromagnetic materials into a current pulse signal.



Eddy-current converter P, shaper FST, functional diagram

Options	P148/FSTA167	P150/FSTA167	P185/FSTA167
Case Thread	M10 × 1	M16 × 1	M20 × 1
output "displacement "			
Measuring displacement, mm	0.4 to 2.4	1 to 6	0.4 to 2.4
Nominal value of the conversion factor proportional to static displacement, mA/mm	8	3.2	8
Output signal, mA		from 4 to 20	
Limits of permissible relative deviation of the actual value of the displacement conversion factor from the nominal, %		± 2.5	
Limits of the <u>basic reduced</u> error of displacement conversion, %		± 2.5	
Size FST, mm		150 × 118 × 45	
Case length, mm		50, 80, 100	
Total length cable, m		1.0 to 14 with a multiplicity of 0.5	
Cable length from proximeters to cable gland, m		0.5 to 5 with a multiplicity of 0.5	
Weight proximeters 100 mm long with 8 m cable in metal hose, kg		1.8	
Weight converters, kg		0.3	
output «impulse»			
Control surface		gear, groove, key	
Number of gear teeth, pcs		1 to 120	
Installation gap, mm	1.3 ± 0.3	3.5 ± 0.2	1.4 ± 0.2
Output signal, mA:			
- "0"		3.5 to 5.5	
- "1"		19 to 21	
Pulse frequency measurement range, Hz		1 to 4000	
Time for updating readings on a digital output, s		1	
Synchronization line function		Phase mark former	
Output resistance, Ohm		100 to 500	
Working temperature range, °C:			
- proximeters		0 to 180 (-40 to 180)	
- converters		0 to 70	
Supply voltage, V		24 ± 6	
Current consumption, mA		150	
Length of signal cable, m		250	
Basic reduced error of measurement of rotation frequency%,		± 0.1	
- imp/s (Hz),		± 2.0	