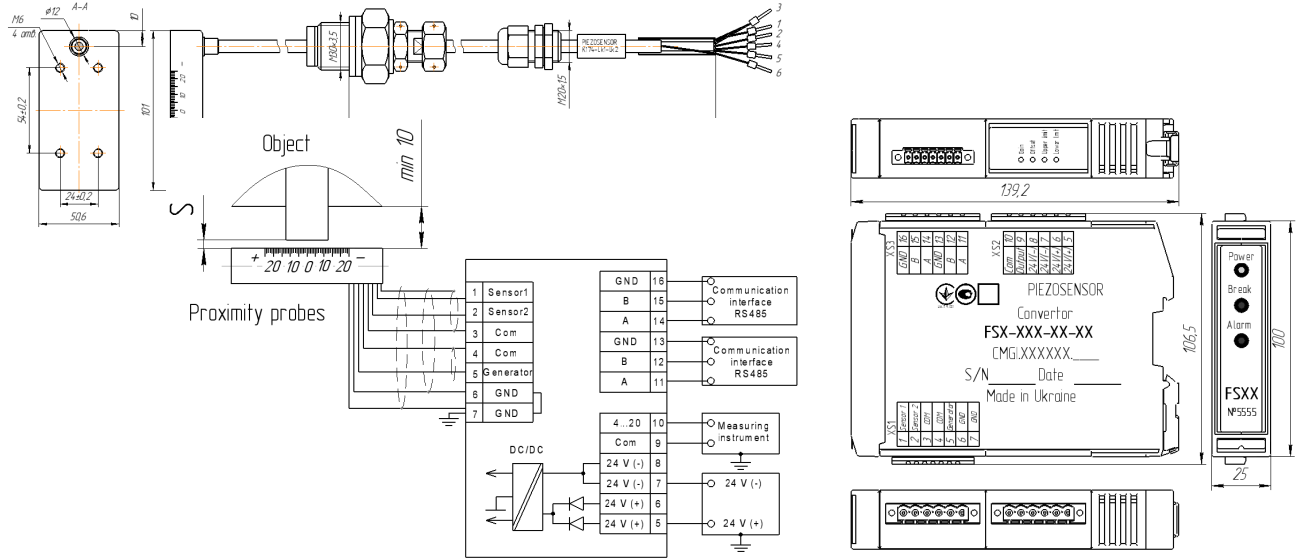PIEZOSENSOR®

DISPLACEMENT CONVERTERS

# K/FSM

UA.TR.001

Converters K/FSM are designed to convert the displacement of the reference surface of the "ridge" type into a normalized electrical signal 4-20 mA.



Displacement converter K, signal conditioner FSM, functional diagram

| Options | Meaning | | | | | |
|---|---|---|---|---|---|---|
| Installation gap, mm | 1.5 ± 0.2 | | | | | |
| Width of the "ridge", mm | 10 | 20 | 25 | 30 | 35 | 40 |
| * Measuring displacement, S, mm | 0-50 | 0-50 | 0-45 | 0-40 | 0-35 | 0-12 |
| Output signal, mA | from 4 to 20 | | | | | |
| The nominal value of the conversion factor proportional to the static displacement K, mA/mm | 16/S | | | | | |
| Cable length, m | 3, 5, 7, 9, 12, 14 | | | | | |
| Working temperature range, °C: - proximeters - converters | 0 to 180 (- 40 to 180) 0 to 70 | | | | | |
| Supply voltage, V | 24 ± 6 | | | | | |
| Current consumption, mA | 200 | | | | | |
| Size, mm: - proximeters - converters FSM | 101 × 51 × 21 150 x 118 x 45 | | | | | |
| Weight, kg: - proximeters - converters | 2 0.3 | | | | | |
| Limits of permissible relative deviation of the actual value of the displacement conversion factor from the nominal, % | ± 4 | | | | | |
| Limits of the basic reduced error of displacement conversion, % | ± 5 | | | | | |
| The limits of the additional permissible error of the displacement transformation caused by a change in the ambient temperature from normal to the final values of the operating temperature range, %: - proximeters - converters | ± 4 ± 2.0 | | | | | |

* The range of movement S can be changed at the request of the customer