

TILS inductive linear scales

TILS Inductive Linear Scales are robust, dustproof, waterproof linear scales, with the possibility to reach high resolution upto 1 micron, easy assembly and very reasonable price.

TILS sensors are the inductive devices. System of coils detect periodical changings the reluctance of the rod caused by ferromagnetic spiral placed inside the rod's wall. Sensor don't includes permanent magnets.

Technical specification:

Meas. length: standard 2 m, maximally 5 mtrs with special frame

Resolution: on demand from 0.001 mm to 0.5 mm
standard resolution 0.001 mm and 0.005 mm

Accuracy: $0.01 + 0.01 \times L(m)$ mm

Max. meas. speed: 1 m/s, special high speed version: 7 m/s

IP protection: IP67



The TILS inductive linear encoders are supplied with the cable length 3 m (including the Stainless Steel conduit) and the wiping rings on the reading head.

TILS reading head, resolution 1 micron, price EUR 145.00

TILS reading head, resolution 5 micron, price EUR 145.00

Measuring bar for the TILS reading heads, price EUR 10.49 / 100 mm

Fixed holder for the measuring bar, EUR 3.95 / pc.

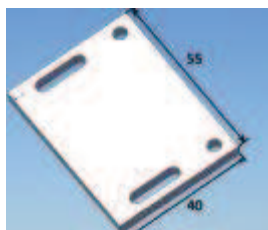
Adjustable holder for the measuring bar, EUR 9.90 / pc.

Extension cable without Stainless Steel Conduit – EUR 6.00 / mtr

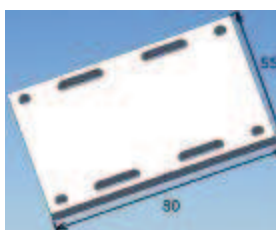
Extension cable with Stainless Steel Conduit – EUR 3.00 / mtr

Assembly profiles for the linear encoders TMLS05-A and TILS

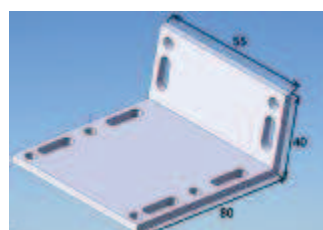
- | | |
|----------------------------------|----------------|
| 1) Flat bracket – small (pic. a) | price EUR 1.80 |
| 2) Flat bracket – big (pic. b) | price EUR 3.19 |
| 3) Big angle bracket (pic. c) | price EUR 4.80 |



Pic. a



Pic. b



Pic. c