

YDAC INTERNATIONAL



Linear Position Transmitter HLT 2550

Flat Profile Design, with Magnetic Guidance

Description:

The HLT 2550 is a linear position transmitter which, due to its compact design, was developed in particular for use in applications where space is very limited. The measuring profile can be individually adapted to various mounting conditions by means of spacers.

The HLT 2550 is available for measuring ranges up to 3 m and in various signal output versions (analog, CANopen, SSI) with a resolution of 50 µm and a non-linearity of ≤ 0.02 % FS.

The main fields of application for the HLT 2550 are, for example, general positioning tasks in mechanical engineering and in industrial hydraulics, or as a wear-free alternative for existing measuring sensors such as potentiometers.

Special features:

- Compact design
- Used in applications where space is very limited
- Individual adaptation to various mounting conditions
- For measuring ranges up to 3 m
- Non-contact and wear-free
- Persuasive price / performance ratio

Technical data:

Input data	,
Measuring ranges 1)	30 3000 mm in steps of 50 mm
Housing	Measuring body: aluminium
Output data	
Signal output	Analog: Current: 4 20 mA or 20 4 mA Voltage: 0 10 V or 10 0 V
	CANopen
	SSI
Resolution	12 bit, ≥ 0.05 mm
Ohmic resistance to GND	Current: 200 500 Ω
(only for signal output analogue)	Voltage: > 2 kΩ
Non-linearity	≤ ± 0.02 % FS, ≥ 0.06 mm
Hysteresis	≤ 0.1 mm
Repeatability	≤ ± 0.005 % FS, ≥ 0.05 mm
Temperature coefficient	≤ ± 0.006 % FS / °F
Sampling rate	0.5 ms up to 1,200 mm
	1.0 ms up to 2,400 mm
In stall of the control of the contr	2.0 ms up to 3,000 mm
Installation position and travel speed Environmental conditions	No restrictions
	4 1407°C antiquelly 40 1407°F
Operating temperature range	-4 +167°C, optionally -40 +167°F
Storage temperature range	-22+185°F, dry
Relative humidity	98 %, non-condensing
(€ mark	EN 61000-6-1 / 2 / 3 / 4
Vibration resistance to DIN EN 60068-2-6 at 50 2000 Hz	≤ 10 g
Shock resistance to DIN EN 60068-2-27	≤ 100 g / 11 ms / half sine
Protection class to IEC 60529	IP 67
Other data	
Electrical connection	M12x1 plug
Supply voltage	24 V DC ± 20 %
Residual ripple of supply voltage	≤ 250 mVpp
Current consumption without output	max. 100 mA
Weight	Depends on length
Note: Reverse polarity protection of the s	

and short circuit protection are provided.

FS (Full Scale) = relative to the complete measuring range
1) Other measuring ranges on request.

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Model code:

HLT 2550 - L2 - XXX - XXX - XXXX - 000

Design/Geometry type

= Profile

Model

L2 = Flat profile, with magnetic guidance

Electrical connection

Signal output analog

M04 = Male M12x1, 4 pole

Signal output CANopen

M05 = Male M12x1, 5 pole

Signal output SSI

M08 = Male M12x1, 8 pole

Signal output

C01 = Analog 4 .. 20 mA, 3 conductor C02 = Analog 20 .. 4 mA, 3 conductor B01 = Analog 0 .. 10 V

B02 = Analog 10 .. 0 V

F11 = CANopen

SSI = SSI

Measuring range in mm (30 to 3000 mm in steps of 50 mm)

Example

0150 = 150 mm

Modification

000 = Standard

Special models on request.

The position magnet must be ordered separately.

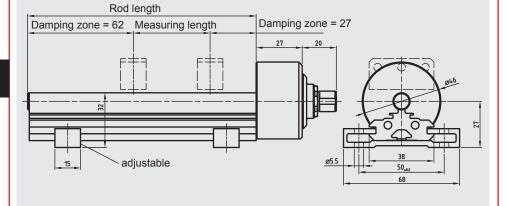
Items supplied:

- HLT 2550
- · Operating instructions

Accessories:

Appropriate accessories, such as position magnets, magnet slides or spacers, can be found in the Accessories section of the Electronics brochure.

Dimensions:



Pin connections:

M12x1, 4 pole



Pin		
1	+U _B	
2	n.c.	
3	0 V	
4	Signal	

M12x1, 5 pole



Pin	Signal	Description
1	n.c.	
2	+U _B	supply+
3	0 V	supply-
4	CAN_H	bus line dominant high
5	CAN_L	bus line dominant low

M12x1, 8 pole



Pin	Description
1	Clock input +
2	Clock input -
3	Data output +
4	Data output -
5	n.c.
6	n.c.
7	+U _B
8	0 V

Note:

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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