PETER HIRT GmbH CH-8606 Nänikon
Murggenstrasse 18 Telefon +41 (0) 44 251 24 39 Fax +41 (0) 44 252 57 90 www.peterhirt.com

Datasheet T102PIOL

Articlenumber 1005949

Intelligent transducer with integrated signal conditioning and digital IO-Link interface, Measuring stroke ± 2 mm, Pretravel fixed. Pneumatic push. Plug DIN M8, cable exit radial.

Total Stroke, Measuring stroke, Pretravel default setting, Bearing, Lifetime, Tip rotation, Temperatur range, Mounting position, Tip, Bellow, Body diameter, Plug, Cable feature	
Total Stroke	4.6 mm
Measuring stroke	± 2.0 mm
Pretravel default setting	symmetrical, fixed not adjustable
Bearing	Ball bearing, no side-play
Lifetime	> 10 Mio. Cycles
Tip rotation	1° over full stroke
Temperatur range	-10 to +65 °C, storage and operation
Mounting position	any
Tip	⌀ 3.0 mm tungsten carbide ball, M2.5 fixing thread, exchangeable
Bellow	FPM
Body diameter	⌀ 8h6
Plug	M8, 4-pin, Port Class A
Cable feature	PUR shielded, Pig-Tail length 200 mm

Datasheet T102PIOL

Articlenumber 1005949

Advance, Lift off, Pressure Pmax, Pressure P application, Spring rate, Spring rate	
Advance	pneumatic
Lift off	return spring
Pressure Pmax	1.5 bar
Pressure P application	0.8 bar
Spring rate	F = f(p) N
Spring rate information	apx. 1.0 N at 0.8 bar / apx. 0.6 N at 0.6 bar (at el. zero)

Repeatability, Error limit, Measuring rate, Power supply, Power consumption	
Repeatability	0.05 µm
Error limit	±1.0 µm (at 20 °C ±1 °C)
Measuring rate	150 measurements/ sec
Power supply	24V
Power consumption	120 mW

Measuring system, Data interface, Connection to electronic device, Transmission rates, IO-Link process data, Configuration	
Measuring system	Plunger, Inductive Half Bridge. Integrated conditioning with system error correction
Data interface	IO-Link specification 1.1 COM3
Connection to electronic device	Plug connection M8 screw-lock, 4 pin
Transmission rates	IO-Link Spezifikation 230,4kBit/s
IO-Link process data	The probes only have „process data out“ data. These are 32 bit wide and correspond to the position of the measuring pin in nanometers, signed.
Configuration	It is not necessary to configure the probe for operation. According to IODD, a rolling average filter can be configured starting at address 0x0040 of the ISDU. Possible values for the averaging time are 0 to 100 ms.

Documents information	
Documents information	All drawings and 3D models are shown in "electrical zero" position.