



HOMMEL-ETAMIC TPE200

Extremely fast pneumo-electronic transducer

- Very fast response time at lowest measuring noise for dynamic applications
- Easy and smooth machine integration thanks to compact and robust housing, designed for use in production
- Wide scope of possible applications in in-process, post-process and off-line
- Excellent linearity for large pneumatic measuring ranges
- Undisturbed data transfer due to digital CAN & CANopen interface



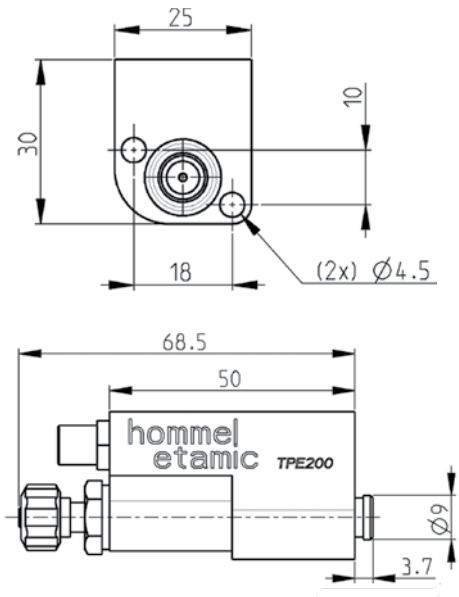
Typical applications

- Honing
- Scanning (profile evaluation)
- Multi-point measurement (autom. fixtures)
- Centerless grinding
- High-precision fixtures

Technical data HOMMEL-ETAMIC TPE200

Feature	Value / Range
Operating temperature	0° C to 60° C (32° F to 140° F)
Power supply	12-24 V DC
Save operating range	3-36 V DC
Pressure of external air supply	3 ±0.5 bar
Save operating pressure	≤7 bar
Measure pressure in front of air gage	1.5 - 2.3 bar
Relative humidity	100 %
Protection grade	IP67
CAN-Bus connector	M8 4 Pins
Measuring noise*	≤0.1 µm
Response time*	15 ms (#10)
Linearity*	0.4 % full scale

* All characteristics determined according to standard DIN 2271



Measuring ranges with TPE200 and air jets from Jenoptik

Depending on the application, the TPE200 transducer is configured individually with the suitable nozzle size for the corresponding measuring range.

TPE200 with different nozzles	Nozzle #	#1 air jet	#2 air jet	#3 air jet
E500900-205	5	40 µm	-	-
E500900-206	6	60 µm	-	-
E500900-207	7	80 µm	-	-
E500900-208	8	-	60 µm	-
E500900-210	10	-	80 µm	-
E500900-212	12	-	120 µm	-
E500900-214	14	-	160 µm	120 µm
E500900-220	20	-	-	240 µm*

* This measuring range can be extended up to 800 µm, depending on the conditions. It has to be defined on an individual basis in accordance with the requirements of the application.



JENOPTIK | Automotive

JENOPTIK Industrial Metrology Germany GmbH | Alte Tuttlinger Straße 20
78056 VS-Schwenningen | Germany | Phone +49 7720 602-0 | Fax +49 7720 602-123
E-mail: metrology@jenoptik.com | www.jenoptik.com/metrology