

Technische Daten

Technical Data

Application	Velocity-measurement of glowing tubes, profiles and wires, with high dynamic and reproducibility, especially suitable for measurement of low velocities for difference- velocity-measurement
Evaluation	Processing unit for calculating moving average with external synchronisation, programmable update time ≥ 2 ms
Accuracy ¹⁾	0.05 %
Repeatability ¹⁾	better than 0.03 % in the range of 170 ± 5 mm
Working distance	170 ± 7.5 mm widen 170 ± 10 mm, accuracy 0.1 %
Velocity range ²⁾ (on customers demand)	0.008 up to 0.83 m/s (0.5 up to 50 m/min) widen 0.016 up to 1.7 m/s (1 up to 100 m/min)
Length range	no internal length measurement
Detector / measurement principle	CCD-line / spatial filter principle
Lighting ²⁾	white light, halogen lamp 10 W
Programming interface ³⁾	RS 232 (opto isolated)
Opto isolated outputs ³⁾	OUT1, OUT2, OUT3
function	OUT1, OUT2: pulse output, 2 phases pulse encoder emulation OUT3: signal status
frequency of pulse output	1 Hz - 7 kHz (max. +0,2 % measuring error at 7 kHz) (optional high resolution pulse output available)
type / max. output current	npn open collector / 40 mA
Opto isolated inputs ³⁾	IN1, IN2
function	external direction signal and trigger signal (for signals ± 20 mA, 0/20 mA or 0/24 V, R_i approx. 1 kOhm)
LOW-level	-40 up to +0,3 mA
HIGH-level	+2 up to +40 mA
Power supply	230 V / 50 Hz optional 115 V / 60 Hz or 24 V / DC
Power consumption	< 50 W
Temperature range	0 up to 50 °C (0 up to 120 °F)
Protection type	IP 65
Weight ²⁾	approx. 5,8 kg
Electrically Magnetically Agreeableness	Industrial standard corresponding to CE ⁴⁾
Case sizes without connectors ²⁾	360 mm x 180 mm x 90 mm
Options	
Analog output IF1 4 up to 20 mA or 0 up to 20 mA (16 Bit, opto isolated); various digitally interfaces IF1 (RS485/RS422, RS232, opto isolated); high resolution pulse output IF2 0.4 Hz up to 25 kHz and IF2F up to 500 kHz (2 x 2 pulse, resolution 20 ns); interface carts for Ethernet or Profibus DP; laser light barrier, automatic direction detection (not for F/S-series), Real Time Clock, counter and displays; mounting equipment, linear units, protection case, window jet	
1) DIN 1319 / ISO 3534, from the measured length value, Conditions: metallic surface, length 10 m	3) all connections are short-circuit proof, max. voltage 50 V/DC, 36V/AC
2) Conventional type, other types possible	4) proof test by accredited institute

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