

Technische Daten

Technical Data

Application	Velocity-measurement of glowing tubes, profiles and wires, with high dynamic, reproducibility and bigger variance of working distance, especially suitable for control purposes
Evaluation	Processing unit for calculating moving average, programmable update time ≥ 2 ms
Accuracy ¹⁾	0.1 %
Repeatability ¹⁾	better than 0.05 % in the range of $240 \pm 7,5$ mm
Working distance	240 \pm 15 mm widen 240 ± 30 mm, accuracy 0.2 %
Velocity range ²⁾ (on customers demand)	0.03 up to 15 m/s (2 up to 900 m/min) widen 0.07 up to 30 m/s (4 up to 1800 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 160 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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