

TYPE SERIES	VBK 512			
PROCESS PARAMETE				
Material to be measured				
Max. strip speed	metal strip and flat wire 600 m/min			
MEASUREMENT PARA	METERS		ı	
C-frame depth	35 ı	mm		
Measurement depth (from the strip edge)	25 mm			
Positioning	manual			
Pass line variation	max. +/- 1 mm			
Measurement sensor	analog	digital	analog	digital
Measurement range	0 - 3.2 mm	0 - 9 mm	0 - 3 mm	0 - 32 mm
Measurement resolution	0.0001 mm	0.00005 mm	0.0001 mm	0.0005 mm
Measurement accuracy	+/- 0.1 % of nominal value +/- 0.1 % of nominal value			ominal value
$T_i$ > 100 ms, measurement insert material: diamond, with twist-free guiding through the gauge, strip / wire temp. $\leq$ 60 °C	but not better than +/- 0.001 mm but not better than +/- 0.002 mm			n +/- 0.002 mm
Max. strip temperature	160 °C (250 °C with reduced accuracy)	150 °C	160 °C (250 °C with reduced accuracy)	150 °C
Measurement amplifier type	VMF 1000 / 2000	VTS	VMF 1000 / 2000	VTS
Sampling interval	1,6 ms	1,0 ms	1,6 ms	1,0 ms
Averaging time T <sub>i</sub>	1.6 - 409.6 ms	1.0 - 2,000.0 ms	1.6 - 409.6 ms	1.0 - 2,000.0 ms
DIMENSIONS				
		100	l mm	
Width (installation space) in strip pass direction	180 mm			
Width outside line	200 mm			
Height below pass line	200 mm			
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CONNECTION DATA / (			de de la color (n. 1941). La del	
Interfaces	PROFIBUS DP or hardware (digital and analog in- and outputs)			
Supply voltage	110 - 230 V AC, 50 - 60 Hz 1 kW			
Installed load	20			100
Max. cable length between sensor and measurement amplifier	30 m	100 m	30 m	100 m
Protection class	IP64			
Environment	Temperature: 5 - 50 °C, Relative humidity: 0 - 95 %			
Compressed air quality	Solids: quality class 5 = max. 40 μm, particle density < 10 mg/m <sup>3</sup>			
acc. to DIN ISO 8573-1	Water content: quality class 5 = 9.4 g/m³ at 10 °C, Oil content: quality class 4 = oil content < 5 mg/m³			
Compressed air supply	Pressure: min. 4 bar, Consumption: max. 2 m³/h			
OPTIONS				
Special strip guiding	for disadvantageous proportion of strip thickness to strip width			
Adjustable cardanic	for stiff or thick material			
suspension	for the width of OO area			
Cylindrical guiding rolls	for strip width > 20 mm			
Profiled guiding rolls	for profiled wire			



