

TYPE SERIES	SERIES VBK 512		
PROCESS PARAMETERS	THICKNESS MEASUREMENT	WIDTH MEASUREMENT for wire thickness 0,1 - 9 mm	
Material to be measured	metal strip and flat wire		
Maximal strip temperature	120 °C (up to 200 °C with reduced accuracy)		
Maximal strip speed	600		m/min
MEASUREMENT PARAMETERS			
Measurement range	0 – 9	0 – 32	mm
Measurement throat depth (- 5 mm = max. measurement depth)	20	-	mm
Maximal pass line variation during measurement	±1	±1	mm
Measurement resolution	0.1	0.5	μm
Measurement accuracy T₁≥ 10 ms, measurement insert material: diamond, ambient temperature > 18 °C	$\pm$ 0.1 % of nominal value, but not better than $\pm$ 0.001 mm	$\pm$ 0.1 % of nominal value, but not better than $\pm$ 0.002 mm	
Horizontal positioning	manual		
Sampling rate	1		kHz
Averaging time T <sub>i</sub>	1 – 2,000		ms
DIMENSIONS			
Width (installation space) in strip pass direction	thickness measurement only: 100 (120) thickness and width measurement: 165 (185)		mm
Height below pass line	200		mm
Width outside line	200		mm
CONNECTION DATA / CONSUMTION	IS / ENVIRONMENT		
Interfaces	alternative: PROFINET, PROFIBUS DP, TCP/IP, hardware (digital and analog in- and outputs)		
Supply voltage / connected load	110 – 230 V AC, 50 – 60 Hz / 1 kW		
Protection class	gauge head: IP64; pneumatic cabinet: IP55		
Environment	temperature: 5 – 50 °C, relative humidity: 0 – 95 %		
Compressed air quality acc. DIN ISO 8573-1	solids: quality class $5 = \text{max. } 40  \mu\text{m}$ , particle density < $10  \text{mg/m}^3$ water content: quality class $5 = 9.4  \text{g/m}^3$ at $10  ^{\circ}\text{C}$ , oil content: quality class $4 = \text{oil content} < 5  \text{mg/m}^3$		
Compressed air supply	pressure: min. 5 bar, consumption: max. 2 m³/h		
OPTIONS			
Special strip guiding	for disadvantageous proportion of strip thickness to strip width		
Adjustable cardanic suspension	for stiff or thick material		
Cylindical guiding rolls	for strip width > 20 mm		
Profiled guiding rolls	for profiled wire		



