

MEASUREMENT SENSING CAPABILITIES

	Family	Detectable Targets							Maximum Resolution					Measurement Range ± distance from measurement point					
		Small Object <1mm ²	Transparent	Liquid	Solid	Metal	Shiny Metal	Color Independent	≤ 1 micron	≤ 2 micron	≤ 3 micron	≤ 5 micron	≤ 10 micron	> 10 micron	≤ 2.5 mm	4-5 mm	10 mm	40 mm	
Displacement Sensors	<i>Optical</i>	Z4M-WRA	●		●	●	●		●		●							●	●
		Z4M	●		●	●	●		●	●								●	●
		Z4M-N	●		●	●	●	●	●						●				
		Z4W	●		●	●	●						●			●			
	<i>Inductive</i>	E2CA				●	●	●	●	●									
		E2CD				●	●	●	●	●									
	<i>Ultrasonic</i>	E4DA	●	●	●	●	●	●						●					
	<i>Contact</i>	D5A		●		●	●	●	●	●									
		D5M		●		●	●	●	●				●						
		D5V		●		●	●	●	●	●			●						
Measurement Sensors	<i>Optical</i>	Z4LA	●			●	●	●	●			●							
		Z4LB	●			●	●	●	●			●							
		Z4LC	●	●		●	●	●	●				●						

	Family	Outputs			Inputs			Features			Indicators							
		4 to 20 mA	-4 to +4 VDC	+1 to +5 VDC	Digital / Serial	Contact	Laser ON	Laser OFF	Timing	Forced Zero	TEACH Key	Auto Sensitivity	Selectable Response Time	Power ON	Laser ON	Stability	Range - Far	Target
Displacement Sensors	<i>Optical</i>	Z4M-WRA	●					●	●			A	A			A	A/S	
		Z4M		●				●	●			A	A			A	A/S	
		Z4M-N	●			●		●	●		A	A	A			A	A/S	
		Z4W	●													S	S	
	<i>Inductive</i>	E2CA	●											A		A		
		E2CD	●						●		A			A				
	<i>Ultrasonic</i>	E4DA	●						●							A/S		
	<i>Contact</i>	D5A					●								S			
		D5M	●											A				
		D5V	●			●					S			S				
Measurement Sensors	<i>Optical</i>	Z4LA			●		●	●				A			S	S		
		Z4LB			●			●	●	●	A		A		A/S			
		Z4LC	●			●		●	●	●	A				A			

A = Amplifier
 S = Sensor
 * = Indicator only

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Measurement Point				Width Measurement		Sensing Distance						Optics		Supply Voltage			Family	Page
25 mm	30 mm	40 mm	100 mm	10 mm	28-30 mm	0-5 mm	0-10 mm	30-70 mm	60-6000 mm	0-300 mm	40 mm fixed	FDA Laser Class	Wavelength (nm)	12-24 VDC	10-30 VDC	90-260 VAC		
		●	●									II	VR 670	●			Z4M-WRA	3
		●	●									IIIb	IR 780	●			Z4M	19
	●											II	VR 670	●			Z4M-N	37
●													LED	●			Z4W	53
							●								●	●	E2CA	69
						●									●		E2CD	81
								●							●		E4DA	101
						●									●		D5A	113
						●	●								●		D5M	123
						●									●		D5V	131
				●						●		IIIb	IR 780	●			Z4LA	145
				●	●					●	●	II	VR 650	●			Z4LB	167
					●					●	●	II	VR 670	●			Z4LC	185

VR = Visible Red
IR = Infrared

Target	Indicators					Measurement Applications													Family	Page
	Range - Near Overtravel	Alarm	High	Pass	Low	Distance / Position	Tolerance	Part Positioning	Correct Assembly	Fill Level	Diameter / Air Gap	Sheet/Film Thickness	Warpage	Edge Control	O.D. / I.D.	Profile / Width	Tool Wear	Original Point of Work		
A/S						●	●	●	●	●		●	●		●				Z4M-WRA	3
A/S						●	●	●	●	●		●	●		●				Z4M	19
A/S				A	A	●	●	●	●		●				●				Z4M-N	37
S						●	●	●	●	●	●	●	●		●				Z4W	53
				A		●	●	●	●		●	●	●						E2CA	69
		A	A		A	●	●	●	●		●	●	●						E2CD	81
		A	A	A	A	●	●	●	●	●	●	●							E4DA	101
						●	●	●	●		●	●	●		●		●		D5A	113
	A					●	●	●	●		●	●	●		●		●		D5M	123
	S		S*	S*	S*	●	●	●	●		●	●	●		●		●		D5V	131
		S				●	●		●		●			●	●	●			Z4LA	145
			A	A	A	●	●		●					●	●	●			Z4LB	167
			A	A	A	●	●		●					●	●	●			Z4LC	185

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