

Optical Angle Measuring System

- Non- contact optical encoder
- Industry standard digital and analogue output options
- Customer selectable resolution to 24 Bit
- Reference mark
- Small reader design
- High speed operation
- Integral set-up LED

Target Rings Size:

Target Ring	DR	ID	OD	Thickness
ODA67	Axial	35mm	67mm	0.5mm
ODA110	Axial	70mm	110mm	0.5mm
ODR115	Radial	95mm	115mm	10mm
ODR206	Radial	186mm	206mm	10mm
ODR115	Radial	280mm	300mm	10mm



Resolution:

Type	ODA67	ODA110	ODR115	ODR206	ODR300	Maximum
MicroRA	10,240,000	16,777,216	18,432,000	33,177,600	49,152,000	30rpm
MicroRB	5,120,000	8,388,608	9,216,000	16,588,800	24,576,000	60rpm
MicroRC	2,560,000	4,194,304	4,608,000	8,294,400	12,288,000	125rpm
MicroRD	1,280,000	2,097,152	2,304,000	4,147,200	6,144,000	250rpm
MicroRE	640,000	1,048,576	1,152,000	2,073,600	3,072,000	500rpm
MicroRF	320,000	524,288	576,000	1,036,800	1,536,000	1000rpm
MicroRG	160,000	262,144	288,000	518,400	768,000	1000rpm
MicroRH	80,000	131,072	144,000	259,200	384,000	1000rpm
MicroRI	5,000,000	8,192,000	9,000,000	16,200,000	24,000,000	60rpm
MicroRJ	4,000,000	6,553,600	7,200,000	12,960,000	19,200,000	60rpm
MicroRK	2,500,000	4,096,000	4,500,000	8,100,000	12,000,000	125rpm
MicroRL	2,000,000	3,276,800	3,600,000	6,480,000	9,600,000	250rpm
MicroRM	1,250,000	2,048,000	2,250,000	4,050,000	6,000,000	250rpm
MicroRN	1,000,000	1,638,400	1,800,000	3,240,000	4,800,000	250rpm
MicroRO	800,000	1,310,720	1,440,000	2,592,000	3,840,000	250rpm
MicroRP	500,000	819,200	900,000	1,620,000	2,400,000	500rpm
MicroRQ	400,000	655,360	720,000	1,296,000	1,920,000	1000rpm
MicroRR	250,000	409,600	450,000	810,000	1,200,000	1000rpm
MicroRS	200,000	327,680	360,000	648,000	960,000	1000rpm
MicroRT	100,000	163,840	180,000	324,000	480,000	1000rpm

Optical Angle Measuring System

Optical Angle Encoder (OR80 Series) :

Power supply: 5V $\pm 5\%$

Power consumption: <30mA (without any load)

Temperature: Storage -20 °C to +80 °C Operating -10 °C to +80 °C

Environmental sealing: IP40

***ORE80 Series Operates down to -40 °C and up to +80 °C**

Output definition:

Colour	Red	Black	White	Grey	Blue	Purple	Brown	Orange	Silver
Function	5V	GND	A+	A-	B+	B-	Z+	Z-	SHIELD

Encoder Size:

