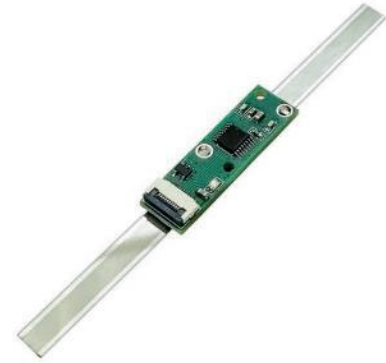


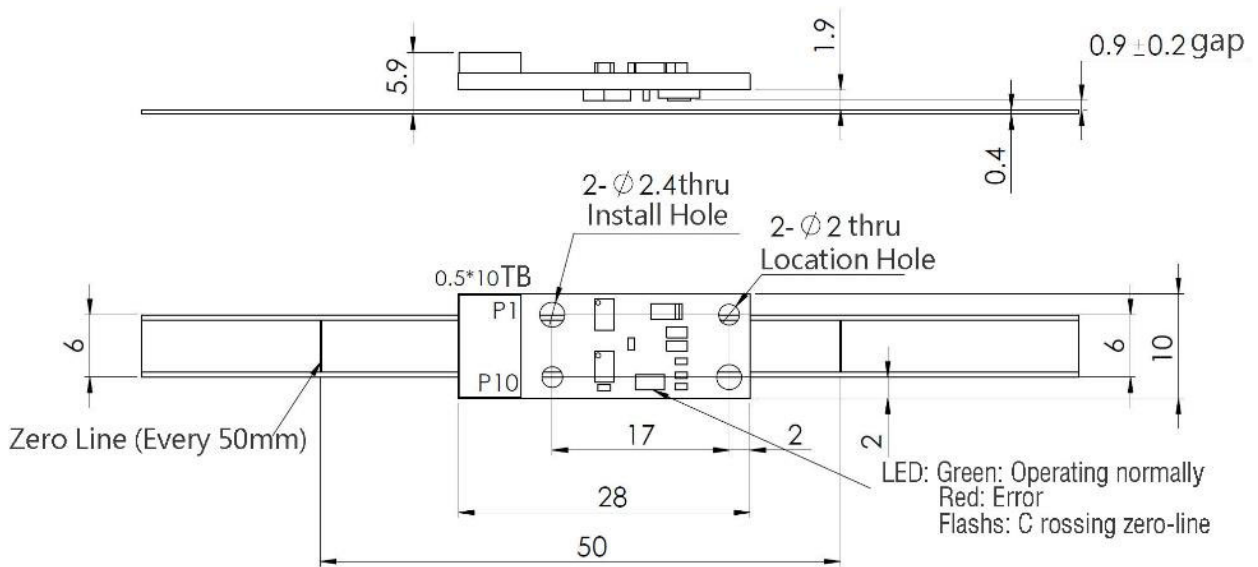
- Non- contact optical encoder
- Industry standard digital output
- Customized resolution from 10nm to 5um
- PCB reader design
- High speed operation



**System data:**

Feature	Technical Data	Additional information
Measuring Principle	Incremental	
Scale embodiment	OS80	Pitch 80μm
Resolution	Max.0.5um	
System accuracy	± (0.001+0.01×L) mm	L in m
Repeat accuracy	±0.0001mm	
Sensor/band reading distance	0.8±0.2mm	
Travel speed	≤5m/s	
Operating voltage	5VDC±5%	
Current consumption	Max110mA	
Output Signals	A+, A-, B+, B-, Z+, Z- ( Index pulse)	Digital Signal
Output Levels	digital output 5V-TTL differential	
Operating temperature	-10~+70°C	ORE80 Series is -40 °C to 80 °C
Storage temperature	-30~+80°C	

**Dimension and Installation (Unit: mm)**



**Output definition:**

No	1	2	3	4	5	6	7	8	9	10
Signal	/	/	Z-	Z+	B-	B+	A-	A+	+5V	GND

**Order code:**

ORC80\_\_

Resolution: Y-0.1um Z-0.5um X-1um