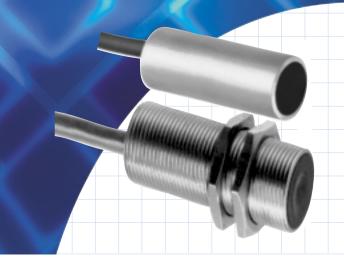
Series 54Z & 54ZT Pickups



- Low Cost Pickup
- Compact Design
- Simple Installation
- Wide Operating Range

The Series 54 pickups offer new levels of economy, performance and convenience to sensing devices. The Series 54 sensors operate over a wide range of air gaps, making them suitable for parts counting and speed sensing applications. The wide operating voltage makes them compatible with most counters, indicators or controllers. The Series 54 does not require a minimum target speed, and can operate from zero up to 20,000 targets per second. Commonly used targets include gear teeth, slotted discs, shafts with keyways, etc. made of carbon steel, iron, or magnetic stainless steel. This low cost sensor offers reliable operation in wet, dirty and high temperature environments.

Applications

- Parts counting
- Speed sensing •

PICKUPS AND SENSORS

• Sensor for PLC's and indicators

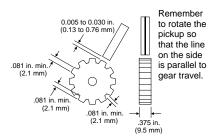
Application Guidelines:

For ease of installation and optimum performance, a keyway is provided so that the sensor may be visually aligned with the target's direction of travel.

Target: Requirements

Gap: 0.005 to 0.030 inch Length: 0.081 inch min. Separation: 0.081 inch min. Width: 0.375 inch min. Height: 0.081 inch min. Speed: 0 to 20,000 targets/sec. max. Pitch: 20 max

Target Requirements



SPECIFICATIONS

Power Requirements: 5 to 18 VDC, 10 mA plus load

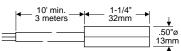
Weight: 2 oz.

Operating Temperature: -40 to +105 °C (-40 to +220 °F.)

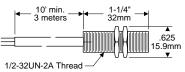
Cable: 105 °C, PVC insulation, 10 foot length Material: Stainless 303 Steel

Approximate Dimensions



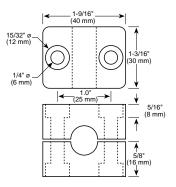






Mounting Clamp

(not required for model 54ZT)



Typical Application



Electrical Output Ratings

Outputs	Voltage Range		Source (mA)	Operating Speed
Current Sink (open collector w/2.2 kΩ pull-ups)	5 to 18 VDC	17	0.9 mA @Vcc-2V output	20 kHz max.

Electrical Connections

Function	Series 54Z Wire Color Code		
5 to 18 VDC	RED		
Signal	WHT		
Common	BLK		

Recommended Dynapar brand Gears

Gear	Dia.	Bore	Pitch	PPR	54Z/54ZT
16002070081	3-1/10"	3/8"	20	60	Х
16002070083	3-7/8"	1/2"	16	60	Х
16002070216	5-1/2"	1-1/8"	11	60	Х
16002070217	5-1/2"	1-3/8"	11	60	Х
16002070218	5-1/2"	1-5/8"	11	60	Х
16002600314	5-1/2"	1-7/8"	11	60	Х
16002600315	5-1/2"	2"	11	60	Х
16002600316	5-1/2"	2-1/8"	11	60	Х
16002600317	5-1/2"	2-1/4"	11	60	Х
16002600318	5-1/2"	2-3/8"	11	60	Х
16002600319	5-1/2"	2-1/2"	11	60	Х
16002600320	5-1/2"	2-7/8"	11	60	Х
Key or Keyway				1	Х

Ordering Information

Output Waveform	Description	Model No.	
Unidirectional	Pickup	54Z	
	Threaded Pickup	54ZT	
	Clamp for 54Z	605213	