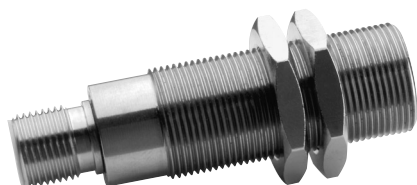


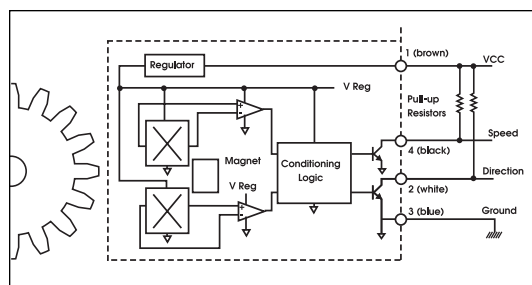
SD1002-1004 Speed and Direction Sensor



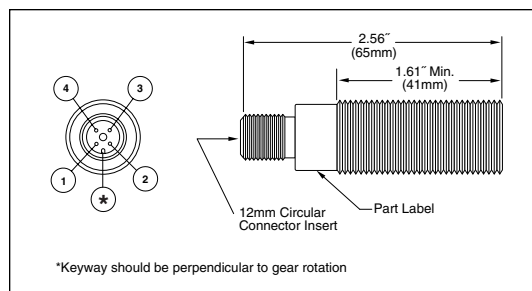
**Hall effect
gearthooth speed
and direction
sensor with
adjustable stainless
steel housing.**

- Sense Motion/Direction of Ferrous Geartooth Targets
- Separate Digital Outputs for Speed and Direction
- Immune From Hostile Environments
- High-Speed Capability
- Operate From 5 to 24Vdc
- Reverse Battery Protection to -24Vdc
- Wide Operating and Storage Temperature Range
- M12 Integral Connector Meets IEC60947-5-2
- Meet all IEC (International Electrotechnical Commission) Requirements for Heavy Industrial Environments, Assuring Immunity From:
 - Electrostatic Discharge
 - Electrical Transients
 - Radiated Electric Field
 - Conducted Energy
 - Magnetic Field Energy

Open Collector Sinking Block Diagram



Barrel Dimensions



Part #	Operating Voltage Range (VDC)	Supply Current, mA max	Output	Output Saturation Voltage, mV max	Output Current, mA max	Operate Temp. Range, °C	Storage Temp. Range, °C	Housing	Thread	Barrel Length
SD100201	4.75 to 24	17	sink	400	25	-40 to 85	-40 to 105	SST	M18-1	65mm
SD100401	4.75 to 24	17	sink	400	25	-40 to 85	-40 to 105	SST	3/4" – 16	2.56"

GS and SD Series Notes

- A: For sensors with integral connectors, mating cordsets are available from Cherry. Request Part Number AS000203 for a straight female connector or AS000204 for a right-angle female connector.
- B: For further information, visit www.cherrycorp.com.
- C: See page 14 for interface recommendations.