

Key Features

- No machinery tear-down required for mounting
- Five types of wraps fit most applications
- Custom number of pulses per revolution
- PVC, aluminum, or stainless steel
- High temperature wraps available



Description

Pulser Wraps are PVC, aluminum, or stainless steel split collars with magnets mounted on the outside circumference. The magnets serve as targets for Hall-Effect and Magneto-resistive sensors that switch when exposed to magnetic fields. All wraps are custom machined to the diameter of the monitored shaft and are split into halves. This splitting process allows the wrap to clamp tightly onto the shaft without tearing down any equipment to install them. The halves are secured around the shaft with recessed Allen-head socket screws supplied. Pulser Wraps provide magnetic targets that are strong enough to allow large gap distances (up to 1/2-inch) between the wrap and the sensor. The wrap and sensor system forgives slight misalignment of the sensor, machinery vibration, dirty, wet, or greasy environments, and shaft end-play.

Special Wraps

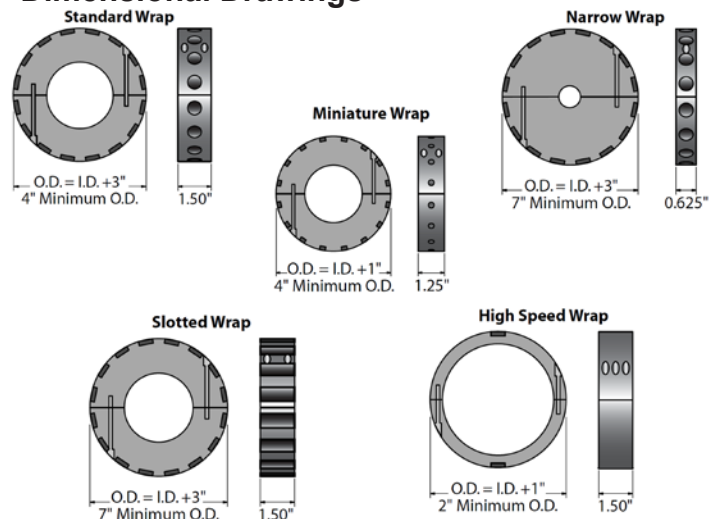
Wraps purchased for use with standard Electro-Sensors systems are typically provided with 16 magnets of alternating polarity. Using a standard Hall-Effect sensing system, this provides 8 pulses per revolution from the sensor. Special wraps can be provided to suit particular application requirements. This often includes adding magnets to the wraps to increase the number of pulses per revolution generated by the sensing system. Adding magnets will usually require an increase in the outside diameter of the wrap. Standard and miniature wraps are typically selected when more magnets are required because the magnets may be added

without large increases in the outside diameter, particularly if the 1/4" diameter magnets are used. Wraps can be manufactured from PVC, aluminum, or stainless steel, and have the option of a keyway where required. Steel inserts can be substituted for magnets when using proximity or mag sensors. An Electro-Sensors Application Specialist can assist in the design of wraps to meet specific or special needs.

Installation

Pulser Wraps are custom manufactured to fit the shaft they will be mounted on. When the wrap is shipped, four Allen-head cap screws hold the two halves of the wrap together. These screws must be removed so that the wrap is in two halves. Place the halves around the shaft, reinsert the screws and torque them evenly to 5 foot pounds. After installation, a small gap between the two halves is normal. If you require a special wrap, please answer the following questions and forward the information to the sales department at Electro Sensors. Please review the specifications and differences between the various wraps before submitting this information.

Dimensional Drawings





Specifications • Split Collar Pulser Wraps	
All Wraps - Temperature Ranges	
PVC Material	-40 °C to +60 °C (-40 °F to +150 °F)
Aluminum Material	-40 °C to +150 °C (-40 °F to +302 °F)
Stainless Steel Material	-40 °C to +150 °C (-40 °F to +302 °F)

Consult factory for higher temperature ranges

Wrap Types	
Narrow - Under 3,000 RPM	
Width	5/8"
Inside Diameter	Custom to shaft size
Outside Diameter	I.D. + 3"
Min. Outside Diameter	7"
Material	PVC Std., Aluminum, Stainless Steel
Standard Magnet Size	1/2" Diameter
Standard no, of magnets	16 (8 or 16 pulses/revolution)

Wrap Types	
Standard - Under 3,000 RPM	
Width	1-1/2"
Inside Diameter	Custom to shaft size
Outside Diameter	I.D. + 3"
Min. Outside Diameter	4"
Material	PVC Std., Aluminum, Stainless Steel
Standard Magnet Size	1/2" Diameter
Standard no, of magnets	16 (8 or 16 pulses/revolution)

Wrap Types	
Slotted - Under 3,000 RPM	
Width	1 1/2"
Inside Diameter	Custom to shaft size
Outside Diameter	I.D. + 3"
Min. Outside Diameter	7"
Material	PVC Std., Aluminum, Stainless Steel
Standard Magnet Size	1/2" X 1-1/2" bar magnet
Standard no, of magnets	16 (8 or 16 pulses/revolution)

Wrap Types	
Miniature - Under 3,000 RPM	
Width	1-1/4"
Inside Diameter	Custom to shaft size
Outside Diameter	I.D. + 1"
Min. Outside Diameter	4"
Material	PVC Std., Aluminum, Stainless Steel
Standard Magnet Size	1/4" Diameter
Standard no, of magnets	16 (8 or 16 pulses/revolution)

Wrap Types	
High Speed - Over 3,000 RPM	
Width	1 1/2"
Inside Diameter	Custom to shaft size
Outside Diameter	I.D. + 1"
Min. Outside Diameter	2"
Material	Aluminum, Stainless Steel
Standard Magnet Size	1/2" Diameter
Standard no, of magnets	2 (1 or 2 pulses/revolution)

Specifications subject to change without notice.

Before Ordering, please check all wrap dimensions carefully. Wraps are custom made and are non-returnable items.

Please have the following information ready when calling for a wrap order.

1. Exact Shaft diameter (in inches)
2. Type of wrap (Standard, Miniature, Narrow, Slotted, High Speed)
3. Max shaft RPM
4. Wrap Material desired (PVC, Aluminum, Stainless Steel)
5. Ambient Temperature
6. Are there corrosive or caustic elements present?
7. Additional Application Information

Customization

If one of our standard products does not meet your specifications, please call one of our applications specialists. Many of our products can be customized to fit specific needs.

Additional Information

Please call Electro-Sensors for more information.

