


# Sensors for Cylinders & Valves

## Sensors for Cylinders & Valves



	BMF 103	BMF 303	BMF 305	BMF 307
For use with magnetic targets	✓	✓	✓	✓
Pneumatic cylinders	✓	✓	✓	✓
Aluminum-walled cylinders	✓	✓	✓	✓
Non-magnetic stainless steel cylinders	✓	✓	✓	✓
Weld immune available			✓	
Tubular Prox body style				
Mounting hardware required	✓	✓	✓	
Discrete	✓	✓	✓	✓
Analog				
DC	✓	✓	✓	✓
AC/DC			✓	✓
UL/cUL/cULus	✓	✓	✓	✓
CE	✓	✓	✓	✓
Features	Optimized for short-stroke cylinders, very compact size, perpendicular mounting, interchangeable brackets	Miniature type for flush mounting in narrow channels, interchangeable brackets	Universal sensor designed for most applications; wide variety of output, connection, and mounting options; plastic or metal housing; weld immune and AC/DC versions	Bracketless type for flush installation into T-slot channels
<p>Stocked, Distributed, and Supported by</p>  <p>507 Kelsey Street • Delano, MN 55328 Phone 763-972-1040 Fax 763-972-1041 Toll Free 888-920-0939 Sensorsincorporated.com</p>				
<b>Web Address:</b>	<b><a href="http://www.balluff.com/cylinder">www.balluff.com/cylinder</a></b>			






## BMF 315

### T-Slot cylinder applications are a snap...

- Self-contained mounting bracket simplifies installation
- Designed for "drop-in" replacement
- Latest Magneto-resistive sensing technology
- Now available in metal housing; consult factory



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BMF 315	BMF 21	BMF 32	BMF Prox Style	BIL
✓	✓	✓	✓	✓
✓	✓	✓		✓
✓	✓	✓		✓
✓	✓	✓		✓
✓ (consult factory)		✓		
	✓	✓	✓	✓
✓	✓	✓	✓	
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
Bracketless type designed for drop in replacement into T-slot channels	Cost-effective, optimized for mounting on tie rod cylinders	Rugged metal housing for the most demanding applications, tie rod mounting, available in weld immune	Designed for long range target sensing, extremely high switching speeds, suitable for tachometer applications, available in 7, 8, 10, 12 mm diameters	Non-contact position feedback, ideal for short and medium stroke length applications

[www.balluff.com/cylinder](http://www.balluff.com/cylinder)

Cylinder & Valve

**Magnetic Field Sensors**

Strokemaster Cylinder Position Sensors

High Pressure Sensors

Power Clamp & Gripper

<http://www.balluff.com/cylinder>

## BIL Magneto-Inductive Linear Analog Sensor

- Non-contact
- Compact, rugged housing
- Responds to magnetic target
- Cost-effective
- Replaces linear potentiometers and LVDTs



**Perfect for harsh industrial applications!**

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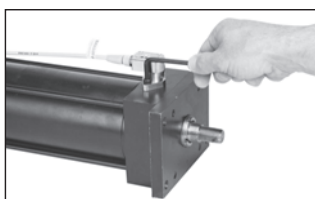


	Strokemaster	High Pressure	Power Clamp
<b>Inductive</b>	✓	✓	✓
Pressure rated	✓	✓	
Hydraulic cylinders	✓	✓	
Steel-walled cylinders	✓	✓	
Weld immune	✓	✓	✓
Power clamp cartridge style			✓
DC	✓	✓	✓
AC/DC	✓		
<b>Features</b>	Weld field immune, pressure rated to 3000 psi, sealed directly at flange, connector can be oriented after installation, various lengths available	Pressure rated as high as 7250 psi, corrosion resistant stainless steel housing, wide variety of housing diameters and thread lengths	Designed for use in power clamp and gripper applications, incorporates two sensors into one unit to detect open or closed position, weld field immune
<b>Web Address:</b>	<a href="http://www.balluff.com/cylinder">www.balluff.com/cylinder</a>		

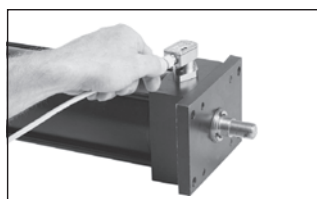


**Balluff's Strokemaster® cylinder-position sensors provide precision end-of-stroke sensing for hydraulic/pneumatic cylinders.**

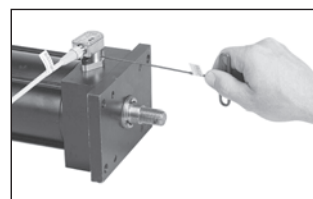
- Withstands pressures up to 3,000 psi
- Head capable of rotating 304°
- 2 mm sensing distance
- Probe lengths of .912" - 4.560"  
(Custom probe lengths achieved using spacer kits)
- DC and AC/DC units available



Bolt sensor to cylinder.



Position cable to desired orientation (even over mounting bolts).



Lock chosen position with one or both of the two integral set screws.

*Note: Some DC units are also available with S5 Mini connector. Consult factory for sensor and cable part numbers.*