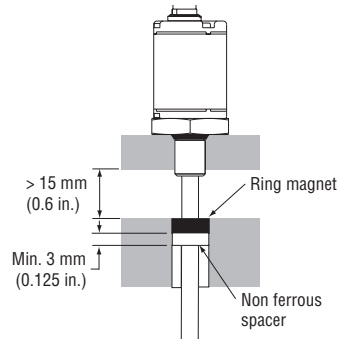


# MOUNTING AND MAGNETS (FOR SENSOR MODELS RH, GH AND GT)

## Rod-style sensor mounting (Models RH, GH and GT)

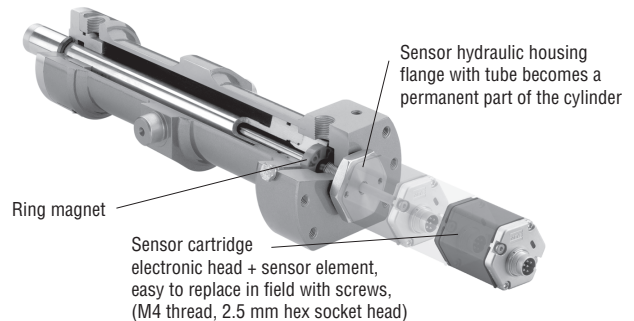
The position magnet requires minimum distances away from ferrous metals to allow proper sensor output. The minimum distance from the front of the magnet to the cylinder end cap is 15 mm (0.6 in.). The minimum distance from the back of the magnet to the piston head is provided by the non-ferrous spacer, i.e. 3.2 mm (0.125 in.).



## Cylinder installation

When used for direct stroke measurement in fluid cylinders, the sensor's stainless steel rod installs into a bore in the piston head/rod assembly as illustrated. This method guarantees a long life and trouble-free operation.

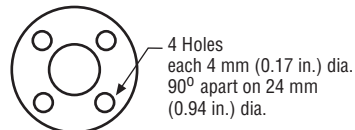
The sensor cartridge can be removed from the flange and rod housing while still installed in the cylinder. This procedure allows quick and easy sensor cartridge replacement, without the loss of hydraulic pressure.



## Selection of position magnets (must order separately)

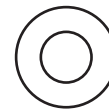
Magnets must be ordered separately with model RH position sensors. The standard ring magnet (part number 201542-2) is suitable for most applications.

### Standard-ring magnet part no. 201542-2



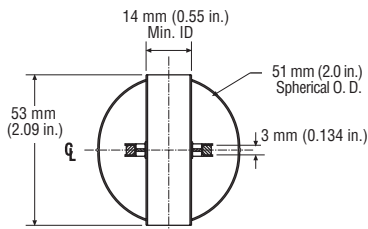
I.D.: 13.5 mm (0.53 in.)  
O.D.: 33 mm (1.29 in.)  
Thickness: 8 mm (0.31 in.)

### Ring magnet part no. 400533



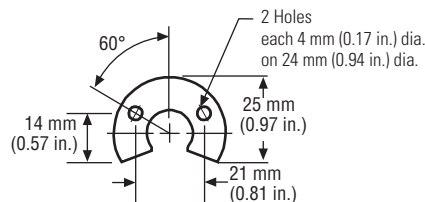
I.D.: 13.5 mm (0.53 in.)  
O.D.: 25 mm (1.0 in.)  
Thickness: 8 mm (0.312 in.)

### Magnet float (level sensing applications) part no. 251447



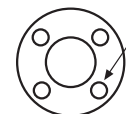
Specific Gravity: 0.70 max.  
Pressure: 870 psi max.  
(Float for use with rod-style sensors in hydraulic fluid or fresh water applications only)

### Floating (open ring) magnet, style M part no. 251416-2



I.D.: 13.5 mm (0.53 in.)  
O.D.: 33 mm (1.29 in.)  
Thickness: 8 mm (0.312 in.)

### Magnet spacer (non-ferrous spacer for use with standard ring magnet) part no. 400633

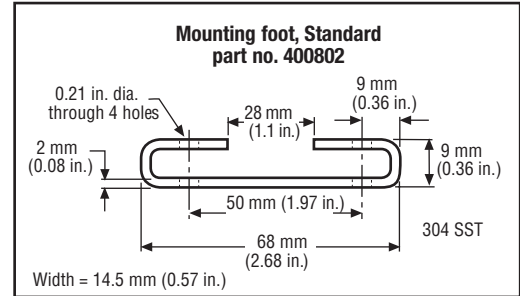
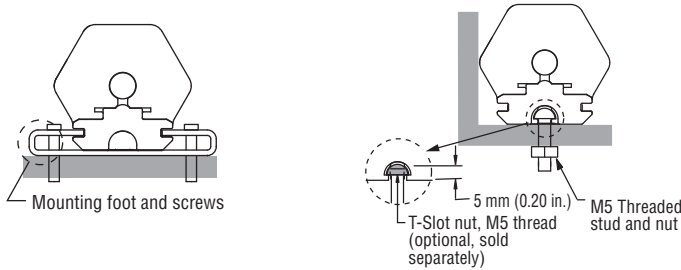


4 Holes each 4 mm (0.15 in.) O.D. 90° apart on 24 mm (0.94 in.) O.D.  
I.D.: 14 mm (0.56 in.)  
O.D.: 32 mm (1.25 in.)  
Thickness: 3 mm (0.125 in.)

**Profile-style sensor mounting (Models RP and GP)**

**Flexible installation in any position**

Temposonics model RP profile-style sensors offer two basic mounting methods; side grooves for use with mounting feet or a bottom groove that accepts special T-slot nuts. Both the mounting feet and T-slot nuts can be positioned along the sensor extrusion to best secure the sensor for each particular application.



**Note:**  
Model RP and GP sensors include two mounting feet, (part no. 400802), for sensor stroke lengths up to 1250 mm (50 in.). One additional mounting foot is included for stroke lengths over 1250 mm (50 in.) and for each additional 500 mm (20 in.), thereafter.

When fastening the mounting feet, 10-32 cap screws are recommended at a maximum torque of (44 in. lbs.)

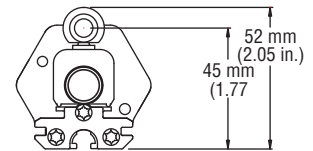
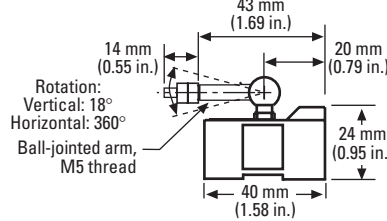
**Selection of position magnets (included with sensor)**

A choice of two magnet mounting configurations are available with the profile-style sensor; the captive-sliding magnet or the floating (open ring) magnet.

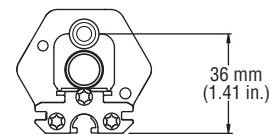
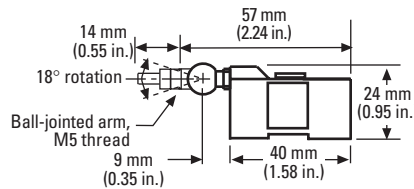
Captive-sliding magnets utilize slide bearings of special material that reduce friction, and if required, help mitigate dirt build up. The slide bearings are designed to operate dry, requiring no external lubrication or maintenance.

The floating magnet (open ring) mounts on the moving machine part and travels just above the sensor's profile extrusion. The open ring magnet (style M) requires a minimum distance away from ferrous metals to allow proper sensor output. It must be mounted using non-ferrous screws and a non-ferrous support bracket, or utilize a non-ferrous spacer of at least 5 mm (0.2 in.) thickness.

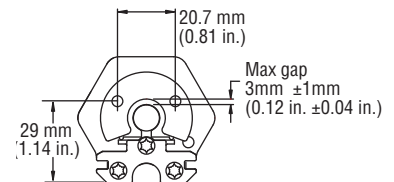
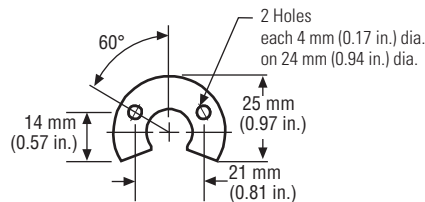
**Captive-sliding magnet, style S part no. 252182**



**Captive-sliding magnet, style V part no. 252184**



**Floating (open ring) magnet, style M part no. 251416-2**



I.D.: 13.5 mm (0.53 in.)  
O.D.: 33 mm (1.29 in.)  
Thickness: 8 mm (0.312 in.)