

# phd SERIES SIP SLIDES INFORMATION SHEET

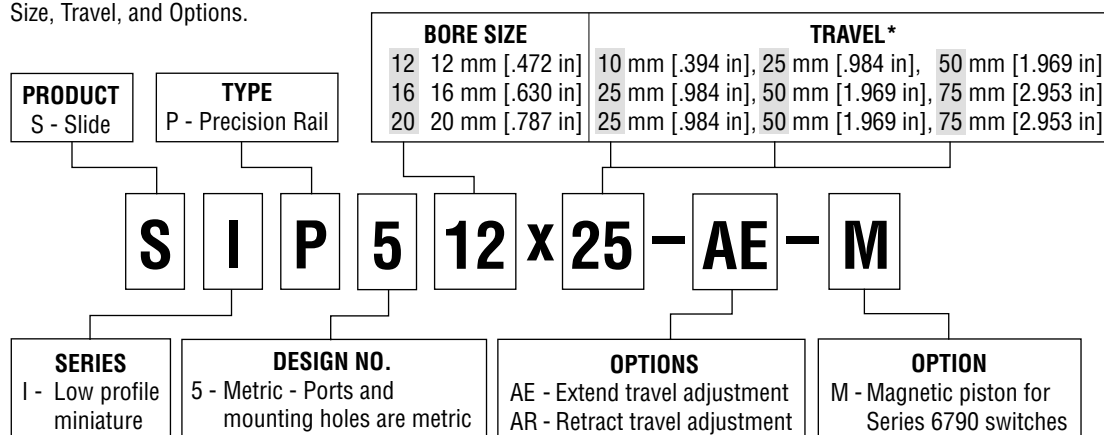
## IMPORTANT INFORMATION DO NOT DISCARD!

Use this information sheet to assist with slide installation and setup.  
File with maintenance or machine documentation.

### Ordering Data

#### TO ORDER SPECIFY:

Product, Series, Type, Design No.,  
Size, Travel, and Options.



PART NO.	DESCRIPTION
67902-1-02	NPN (Sink) or PNP (Source) DC Reed, 2 m cable
67902-1-05	NPN (Sink) or PNP (Source) DC Reed, 5 m cable
67903-1-02	NPN (Sink) DC Solid State, 2 m cable
67903-1-05	NPN (Sink) DC Solid State, 5 m cable
67904-1-02	PNP (Source) DC Solid State, 2 m cable
67904-1-05	PNP (Source) DC Solid State, 5 m cable
67922-1	NPN (Sink) or PNP (Source) DC Reed, Quick Connect
67923-1	NPN (Sink) DC Solid State, Quick Connect
67924-1	PNP (Source) DC Solid State, Quick Connect
63549-02	2 m Cordset with Quick Connect
63549-05	5 m Cordset with Quick Connect

#### Note:

\*Consult PHD for additional travel increments.

For additional technical assistance, call or visit our web site:



P.O. Box 9070, Fort Wayne, IN 46899  
[www.phdinc.com](http://www.phdinc.com)  
 1-800-624-8511 • 260-747-6151

# ENGINEERING DATA: SERIES SIP RAIL BEARING SLIDES

## PRESSURE RATINGS

All Series SIP Slides have an operating pressure range of 20 psi minimum to 100 psi maximum [1.4 to 6.9 bar]. Maximum life will be achieved when pressure and velocity are no greater than necessary for proper operation. External flow controls are recommended. Series SIP Slides feature standard pneumatic ports on the end and both sides of the slide body, and are provided with the end ports ready for use and the side ports plugged with set screws and thread sealant.

## OPERATING TEMPERATURE

Series SIP Slides are designed for use in temperatures between -20° to 180° F [-29° to 82° C]. For temperatures outside this range, consult PHD.

## SEALS

Series SIP Slides utilize urethane and Nitrile seals which are compatible with standard paraffin-based lubrication oils used for pneumatic cylinders. For compatibility with other fluids, consult PHD.

## LUBRICATION

All units are pre-lubricated at the factory for service under normal operating conditions. Slides are designed and tested with non-lubricated air. However, the use of lubricated air will extend life.

## TOTAL TRAVEL LENGTH AND WEIGHT

Tolerance of minimum travel length is +.039/-0.000 [+1 mm/-0 mm].

SIZE	MINIMUM TRAVEL		UNIT BASE WEIGHT	
	in	mm	lb	kg
12	(.394)	10	.30	.14
	(.984)	25	.35	.16
	(1.969)	50	.46	.21
16	(.984)	25	.71	.32
	(1.969)	50	.88	.40
	(2.953)	75	1.04	.47
20	(.984)	25	1.04	.47
	(1.969)	50	1.26	.57
	(2.953)	75	1.48	.67

## MATERIAL SPECIFICATIONS

The slide housing and tool plate are anodized aluminum alloy. Linear profile rail and bearings are hardened and ground stainless steel.

## MAINTENANCE

In common with most PHD products, these slides are fully field repairable. Repair kits and main structural components are available as needed for extended service life.

## MOUNTING INSTRUCTIONS

PHD recommends to mount load or tooling with tool plate retracted. Support tool plate while tightening fasteners. Recommended mounting torques (for screw thread engagement of one diameter or greater) are shown below. Torque for port fittings is the minimum amount required to prevent leakage.

SIZE	in-lb	Nm
M2	2.6	0.3
M3	9	1.0
M4	18	2.0

## OPTIONS: SERIES SIP RAIL BEARING SLIDES



### MAGNET FOR PHD SERIES 6790 REED AND SOLID STATE SWITCHES

This option equips the unit with a magnetic piston for use with PHD's Series 6790 Switch. The switches mount easily into small grooves located on the side of the slide housing and are locked into place with a set screw.



### TRAVEL ADJUSTMENT

PHD SIP Series Slides are available with travel adjustment on extend, retract, or both positions. Specifying an -AE option will provide up to 5 mm of travel reduction on extend, while an -AR option will yield up to 5 mm of travel reduction on retract. To obtain travel adjustment on extend and retract, both options -AE and -AR must be ordered.

PART NO.	DESCRIPTION
67902-1-02	NPN (Sink) or PNP (Source) DC Reed, 2 m cable
67902-1-05	NPN (Sink) or PNP (Source) DC Reed, 5 m cable
67903-1-02	NPN (Sink) DC Solid State, 2 m cable
67903-1-05	NPN (Sink) DC Solid State, 5 m cable
67904-1-02	PNP (Source) DC Solid State, 2 m cable
67904-1-05	PNP (Source) DC Solid State, 5 m cable
67922-1	NPN (Sink) or PNP (Source) DC Reed, Quick Connect
67923-1	NPN (Sink) DC Solid State, Quick Connect
67924-1	PNP (Source) DC Solid State, Quick Connect
63549-02	2 m Cordset with Quick Connect
63549-05	5 m Cordset with Quick Connect

PHD, Inc.  
9009 Clubridge Drive  
P.O. Box 9070, Fort Wayne, Indiana 46899 U.S.A.  
Phone (260) 747-6151 • Fax (260) 747-6754

PHD GmbH  
Arnold-Sommerfeld-Ring 2  
D-52499 Baesweiler GERMANY  
Phone 02401-805 230 • Fax 02401-805 232