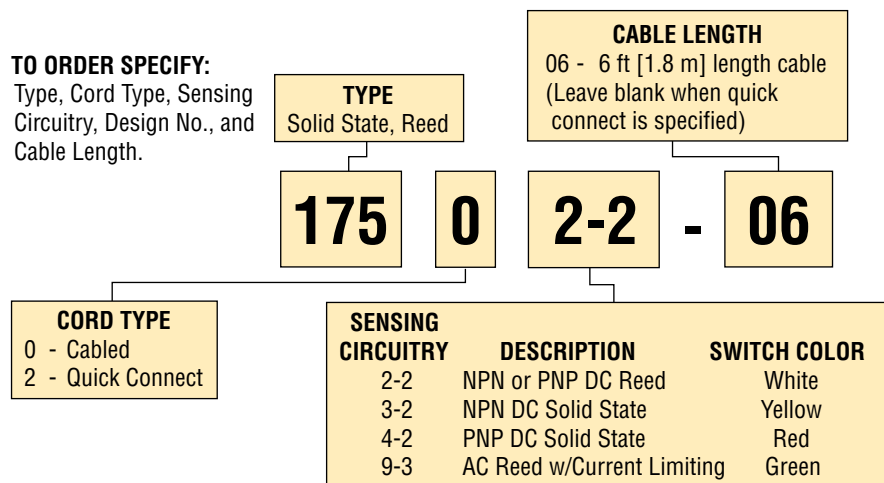


ORDERING DATA: SERIES 1750 SWITCHES

ORDERING DATA

TO ORDER SPECIFY:

Type, Cord Type, Sensing Circuitry, Design No., and Cable Length.



CORDSETS WITH QUICK CONNECT

PART NO.	LENGTH
63549-02	2 meter
63549-05	5 meter

NOTES:

- 1) Cordsets for quick connect switches must be ordered separately. See page 8-17.
- 2) Other cable lengths available. Consult PHD.

COMMON BENEFITS

- Series 1750 switches are available for use on most Tom Thumb and PHD products for simple interfacing to many types of electrical controllers.
- The compact low profile design saves space and provides mounting versatility.
- Low profile bracket attaches securely across two tie rods and allows easy position adjustment over the entire piston travel of the cylinder or actuator.
- IP67 Environmental Protection
- Red LED indicator provides convenient method for position setting and troubleshooting.
- Available in a cabled or 8 mm threaded Quick Connect model for easy installation and maintenance.
- 24 AWG polyurethane (PUR) jacketed cable is robust and virtually impervious to chemical and environmental damage.
- Multiple switches may be mounted to control or initiate any sequence or function.



REED BENEFITS

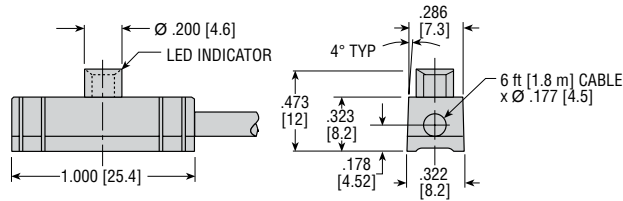
- Available as either 10-30 VDC or 110-120 VAC models for simple interfacing to sequencers and programmable controllers.
- Can be used to directly drive some types of relays or valve solenoids.

SOLID STATE BENEFITS

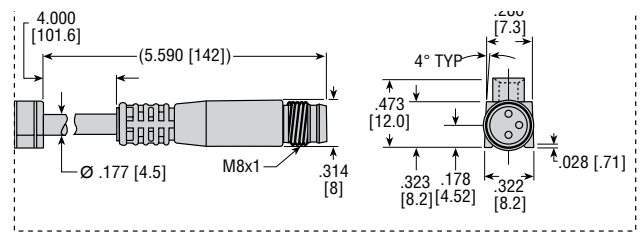
- Solid state switches afford long life. Constant amplitude output allows use with most digital logic systems.
- Switch circuitry protects against voltage surges and other electrical anomalies associated with operating systems.
- Excellent switch hysteresis characteristics and symmetry.
- Offered in 10-30 VDC current sinking and current sourcing versions for simple interfacing to electronic system controllers.

DIMENSIONS: SERIES 1750 SWITCHES

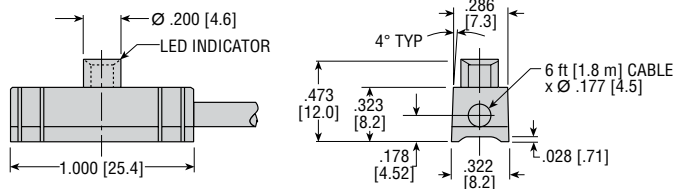
SOLID STATE SWITCH



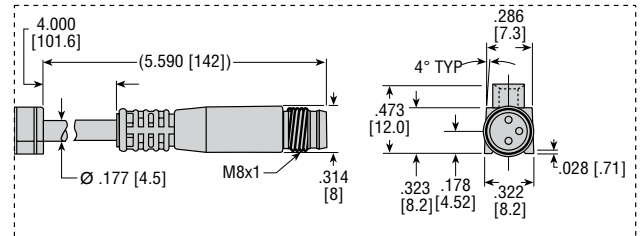
MALE QUICK CONNECT DETAIL



REED SWITCH



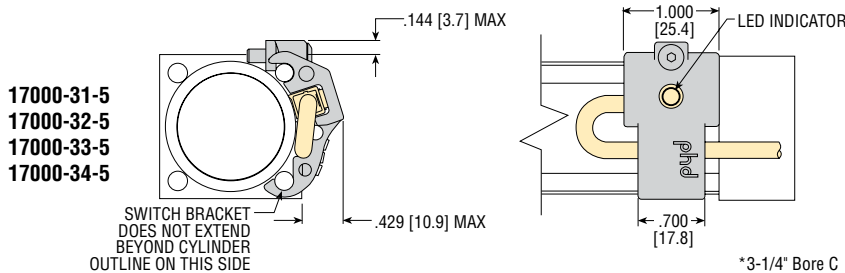
MALE QUICK CONNECT DETAIL



SWITCH BRACKETS

17000-xx-5

PART NUMBER	DESCRIPTION
17494	Strain relief kit for non -5 brackets (-35-0 through -41-0)
18412	Strain relief kit for Series SD/SE Slide size 26

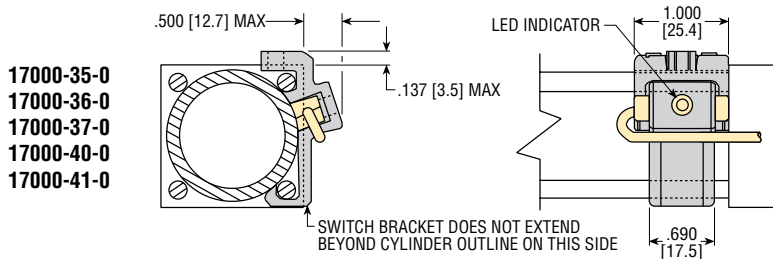


17000-31-5
17000-32-5
17000-33-5
17000-34-5

CYLINDERS

SERIES	BORE SIZE		
	IMPERIAL	METRIC	COMPACT BRACKETS
AV & HV	3/4	19	17000-31-5
	1	25	17000-32-5
	1-1/8	29	17000-33-5
	1-3/8	35	17000-34-5
EA, EL, & NEA	3/4	19	17000-35-0
	1-1/8	29	17000-36-0
	1-3/8	35	17000-37-0
	2	51	17000-40-0
NPG	3	75	17000-41-0
	1-1/8	29	17000-33-5
	1-3/8	35	17000-36-0

17000-xx-0



17000-35-0
17000-36-0
17000-37-0
17000-40-0
17000-41-0

*3-1/4" Bore C & C Cylinders require switch bracket 5142-54-3.

IMPERIAL LARGE BORE CYLINDERS

BORE SIZE	COMPACT BRACKETS*
1-1/2	17000-51-0
2	17000-51-0
2-1/2	17000-51-0
3-1/4*	17000-51-0
4	17000-51-0
5, 6, & 8	17000-57-0

SD/SE SLIDES

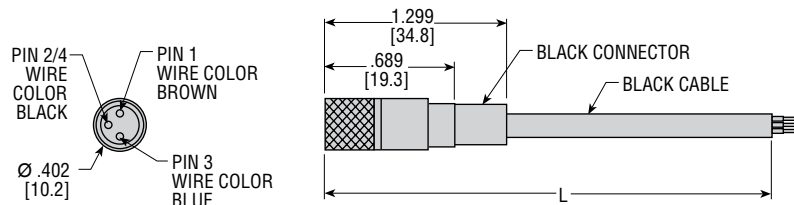
BORE SIZE	BRACKET
22	17000-31-5
23	17000-32-5
24	17000-33-5
25	17000-34-5
26	58050-02

ROTARY & MULTI-MOTION ACTUATORS

SERIES	COMPACT BRACKETS	
	LINEAR SECTION	ROTARY SECTION
1000 & 2000	17000-36-0	17000-32-5
3000 & 4000	17000-37-0	17000-34-5
5000 & 6000	17000-40-0	17000-38-0
7000 & 8000	17000-41-0	17000-39-0
MINIATURE	17000-35-0	—

NUMBERS IN [] ARE IN mm—IMPERIAL EQUIVALENTS ARE PROVIDED FOR CONVENIENCE

63549-xx CORDSET WITH FEMALE QUICK CONNECT



MODEL NO.	LETTER DIM.
	L
63549-02	78.74 [2 m]
63549-05	196.85 [5 m]

NOTE:

1) For earlier design switches 1752x-1 and 17529-2, use cordset 17533-00-02 or 17533-00-05.

All dimensions are reference only unless specifically tolerated.

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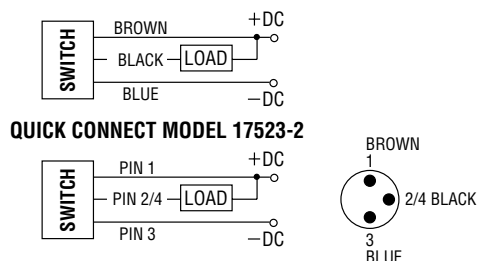
SPECIFICATIONS: SERIES 1750 SWITCHES

SPECIFICATIONS	17503-2 & 17523-2	17504-2 & 17524-2
OPERATING PRINCIPLE	Solid State	
ACTUATED BY	Piston Magnet	
INPUT VOLTAGE	10-30 VDC	
OUTPUT TYPE	NPN (Sink)	PNP (Source)
CURRENT RATING	20 mA. Max	100 mA. Max
VOLTAGE DROP	.5 VDC	
SWITCH BURDEN	10 mA. Max.	
ENVIRONMENTAL	IP67	
OPERATING TEMP.	0° to 80°C	

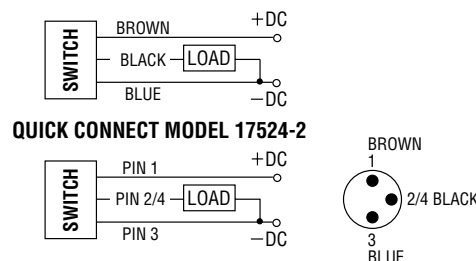
SPECIFICATIONS	17502-2 17522-2	17509-3 17529-3
OPERATING PRINCIPLE	Magnetic Reed	
ACTUATED BY	Piston Magnet	
INPUT VOLTAGE	10-30 VDC	110-120 VAC
POWER CAPACITY	10 Watt Max.	10 Watt Max.
OUTPUT TYPE	Contact Closure	
CURRENT RATING	200 mA.	Inter. Limited
	Switched	to 85 mA.
CONTACT RESISTANCE	.1 Ohm Max.	.1 Ohm Max.
ENVIRONMENTAL	IP67	
OPERATING TEMP.	0° to 80°C	

SOLID STATE WIRING SCHEMATICS

MODEL NO. 17503-2 & 17523-2 - NPN (SINK)
INPUT - 10-30 VDC
LOAD CURRENT - 20 mA. MAX.
SWITCH HOUSING COLOR - YELLOW
 (LED's have been omitted from the schematic for clarity.)
CABLED MODEL 17503-2



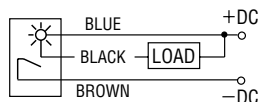
MODEL NO. 17504-2 & 17524-2 - PNP (SOURCE)
INPUT - 10-30 VDC
LOAD CURRENT - 100 mA. MAX.
SWITCH HOUSING COLOR - RED
 (LED's have been omitted from the schematic for clarity.)
CABLED MODEL 17504-2



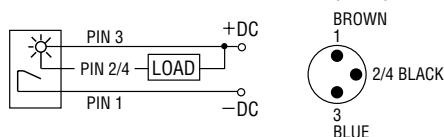
REED WIRING SCHEMATICS

MODEL NO. 17502-2 & 17522-2 - NPN (SINK) OR PNP (SOURCE)
INPUT - 10-30 VDC
POWER CAPACITY - 3 WATT MAX.
LOAD CURRENT - 200 mA. MAX.
SWITCH HOUSING COLOR - WHITE
 (Bi-polar LED emits a red light.)

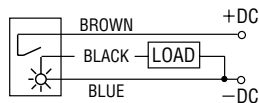
CABLED MODEL 17502-2 - NPN (SINK)



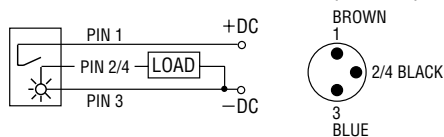
QUICK CONNECT MODEL 17522-2 - NPN (SINK)



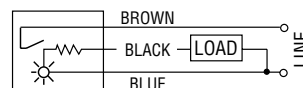
CABLED MODEL 17502-2 - PNP (SOURCE)



QUICK CONNECT MODEL 17522-2 - PNP (SOURCE)



MODEL NO. 17509-3 & 17529-3
INPUT - 120 VAC
SWITCHED POWER - 3 WATT MAX.
INTERNAL RESISTANCE - 1.5 kOhm
SWITCH HOUSING COLOR - GREEN
CABLED MODEL 17509-3



QUICK CONNECT MODEL 17529-3

