Series 3600/3700 (Alt-Action)
Series 3800/3900 (Fail-Safe)

Illuminated Solenoid Release Switches

ELECTRO-MECH
COMPONENTS

P/N W3947PD,L7121R

- 3600/3700 Alternate Action switch can be remotely released
- 3800/3900 Fail-Safe operation protects circuitry/systems
- Waterproofed for environmental or military applications
- Designed and manufactured to meet MIL-PRF-22885
- Accepts all standard EMC lenses, filters, and lamps/LED's (specify L7xxx PD style lens)
- 64 standard styles: 3PST, 4PST, and 6PST

This Electro-Mech Series of solenoid release switches provides an excellent choice of conventional alternate action or increasingly popular *fail-safe* alternate action switching in a variety of styles.

Proven in critical applications such as military and avionics installations, the fail-safe reliability of the Series 3800/3900 offers an ideal switch consideration for emerging industrial controls, process and instrumentation uses in commercial, yet vital areas of dependable solenoid-style switching functions.

SOLENOID RELEASE SWITCH

Series 3600PD - Alternate Action
Series 3700PD - Alternate Action (Remain In)

Units can be remotely released from the activated (depressed) state by energizing the solenoid release coil. Coil is rated for intermittent duty (30 seconds maximum). Based on an industry standard, 3/4" [19mm] panel mount switch design, the Series 3600/3700 is provided in a compact 3.00" [76.2mm] housing (2.16" [54.9mm] behind the panel). Units are configured similar to Electro-Mech Series 2700 (~3600) push-on/push-off and Series 2800 (~3700) push-on/remain-in/push-off switches except for the solenoid release operation feature.

FAIL-SAFE SOLENOID SWITCH

Series 3800PD - Alternate Action
Series 3900PD - Alternate Action (Remain In)

Most common usage of this fail-safe switch is to release the switch from the ON position if the power fails. When the solenoid coil is energized, the switch operates as an alternate action switch. Units are configured similar to Electro-Mech Series 2700 (~3800) push-on/push-off and Series 2800 (~3900) push-on/remain-in/push-off switches. When the solenoid is de-energized, the switch will return to the OFF position and then will operate as a momentary snap feel switch, similar to EMC Series 2500.

electro-mech

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Series 3600/3700 (Alt-Action)
Series 3800/3900 (Fail-Safe)

Illuminated Solenoid Release Switches

ELECTRO-MECH COMPONENTS

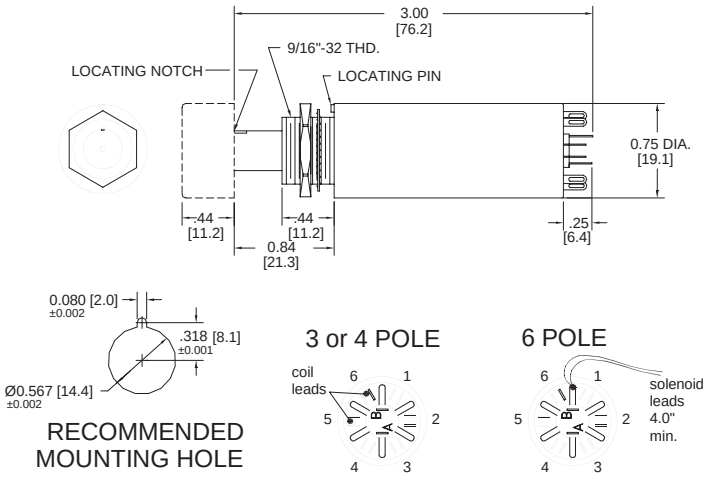
Specifications:

Ratings:	30 volts DC or 125 volts AC; 2.0A resistive, 0.5A inductive	
Weight:	0.8 oz. (22g) (approx.)	
Operating Pressure:	2 lbs.± 1 lb. (454g ± 227g)	
Plunger Travel:	0.187 approx. (25.4mm)	
Actuations:	100,000 minimum	
Contacts:	Silver plated (gold plating optional)	
Terminals:	Standard EMC solder lug. Accepts two 20 AWG wires.	
Lens:	Accommodates all standard EMC lenses with “PD” modified plunger (L7xxx).	
Lamp or LED:	Accommodates one T 1-3/4 (5mm) midget flange base lamp or LED. Lamp circuit is independent.	
	---3600/3700---	---3800/3900---
Coil Rating:	*28VDC, 25ohms (will release @ 15vdc)	28VDC, 480ohms (will operate @ 15vdc)
“AG” Modification:	*14VDC,8.5ohms (will release @ 10vdc)	14VDC,125ohms (will operate @ 10vdc)
Must Release VDC:	n/a	2VDC

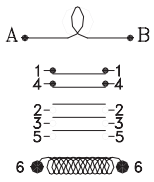
* 30 seconds maximum duration

Environmental, all units: Waterproof (“W”) modification is standard on all units. Includes o-ring seal at plunger and epoxy sealed base. Designed and manufactured to meet MIL-PRF-22885 specifications.

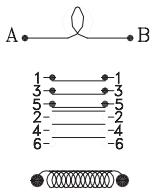
Specifications (not to scale):



All units available only in “PD” version. Uses lens style p/n L7xxx for proper fit (e.g. W3947PDAF,L7163R).



W3640PD
Typical 3 or 4 Pole
SCHEMATIC



W3646PD
Typical 6 Pole
SCHEMATIC

Cross Reference to Clare Pendar (Pollak)

Pendar - Old -	Pendar - Last -	EMC Part No.	Switch Action			
37-10xx	S225-xx	3000	Momentary (see Series 3000)			
38-11xx	S226-xx	W36xxPD	Alternate Action, Release			
38-12xx	S227-xx	W37xxPD	Alternate Action - Remain-In, Release			
39-11xx	S228-xx	W38xxPD	Alternate Action, Fail-Safe			
39-12xx	S229-xx	W39xxPD	Alternate Action - Remain-In, Fail-Safe			
			Circuitry	Open Circuits	Closed Circuits	Coil
3x-xx30	S22x-30	W3x33PD	3PST, 3 N.O.	2,3,4	---	5-6
3x-xx03	S22x-03	W3x34PD	3PST, 3 N.C.	---	2,3,4	5-6
3x-xx12	S22x-12	W3x35PD	3PST, 1 N.O., 2 N.C.	2	3,4	5-6
3x-xx21	S22x-21	W3x36PD	3PST, 2 N.O., 1 N.C.	2,3	4	5-6
3x-xx40	S22x-40	W3x37PD	4PST, 4 N.O.	1,2,3,4	---	5-6
3x-xx04	S22x-04	W3x38PD	4PST, 4 N.C.	---	1,2,3,4	5-6
3x-xx13	S22x-13	W3x39PD	4PST, 1 N.O., 3 N.C.	1	2,3,4	5-6
3x-xx22	S22x-22	W3x40PD	4PST, 2 N.O., 2 N.C.	2,3	1,4	5-6
3x-xx31	S22x-31	W3x41PD	4PST, 3 N.O., 1 N.C.	2,3,4	1	5-6
3x-xx60	S22x-60	W3x42PD	6PST, 6 N.O.	1,2,3,4,5,6	---	flying leads
3x-xx06	S22x-06	W3x43PD	6PST, 6 N.C.	---	1,2,3,4,5,6	flying leads
3x-xx15	S22x-15	W3x44PD	6PST, 1 N.O., 5 N.C.	1	2,3,4,5,6	flying leads
3x-xx24	S22x-24	W3x45PD	6PST, 2 N.O., 4 N.C.	2,5	1,3,4,6	flying leads
3x-xx33	S22x-33	W3x46PD	6PST, 3 N.O., 3 N.C.	2,4,6	1,3,5	flying leads
3x-xx42	S22x-42	W3x47PD	6PST, 4 N.O., 2 N.C.	1,3,4,6	2,5	flying leads
3x-xx51	S22x-51	W3x48PD	6PST, 5 N.O., 1 N.C.	2,3,4,5,6	1	flying leads

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