



HAMLIN

HAMLIN MAGNETIC SENSORS



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59025



59050



59065



59070



59085



59105



59125



59135



59140



59145
59150

- **Initial Contact Resistance: 0.200Ω**
- **Typical Operating Time: 1.00ms**
- **Operating and Storage Temperature: -40°C to +105°C**
- **Shock without Misoperation: 100Gs, 11ms, 1/2 Sine Wave**

RECOMMENDED ACTIVATING POSITIONS

Sensor contacts are activated by an approaching magnetic actuator or selected magnet and released as it is withdrawn. Sensors are connected in series with the load. No additional power is required for operation. They are unaffected by any non-ferrous material placed between sensor and actuator. Contacts are hermetically sealed for protection from hostile environments. Operating Characteristics: Typical operate time: 1ms. Operation and storage temperature: -40°C to +105°C. Shock without false operation: 50G's 11ms, 1/2 sine wave. Typical life @ 5Vdc, 10 ma. 50×10^6 . **Types 59150** are identical to **59145** except leads exit from opposite ends of package. Notes: **Type 59085** contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. (See position B.) **Type 59050** PINS 0.0185D x 0.130"L, 0.8" spacing. **Type 59125** terminals 0.025", 0.240"L, 0.100" spacing. **Type 59135-12"** Flying leads, 20 AWG, 19 x 32 teflon-insulat. 200°C, 300V, UL 1180. All others-12" Flying leads, 24 AWG, 7/32 PVC, 105°C, UL 1430 or UL 1569, 59135 Series CSA certified.

Type	Construction and Mounting	Connection	Must Operate Distance (Inches)	Must Release Distance (Inches)	Contacts	Contact Rating Max. (W)	Switching / Breakdown Voltage Max. / Min. (Volts)	Switching / Carrying Current Max. / Max. (A)	Sensor Newark InOne Part No. / Buy	Matching Actuator	Actuator Newark InOne Part No. / Buy
59025-010*	Firecracker 1.00 x 0.245" (25.4 x 6.22mm) Blind End Tube	2 Leads: 12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.15	0.8	SPST-NO	10	200/250	0.5/1.2	89F1393 / 	57025-000	89F1386 / 
59025-020*			0.15	0.8	SPST-NO	10	300/450	0.5/1.5	94F6952 / 	57025-000	89F1386 / 
59025-030*			0.15	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7990 / 	57025-000	89F1386 / 
59025-040*			0.15	0.8	SPST-NC	5	175/200	0.25/1.5	96B3824 / 	57025-000	89F1386 / 

59030-030	Firecracker 1.00 x 0.245" (25.4 x 6.22mm) Blind End Tube	3 Leads: 12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.150	0.8	SPDT-CO	10	175/200	0.25/1.5	94F6934 / 	57030-000	49H4199 / 
59050-010	PCB Mount 0.900" (22.9mm) Length	3.3mm Legs for Through-Hole Mounting, Moulded Stand-Offs Allow Board Washing	0.075	0.55	SPST-NO	10	200/250	0.5/1.2	89F1394 / 	57050-000	89F1387 / 
59050-030			0.075	0.55	SPDT-CO	5	175/200	0.25/1.5	50F7991 / 	57050-000	89F1387 / 
59065-010	Threaded Barrel 5/16 x 24" THD with Two Retaining nuts	12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.15	0.8	SPST-NO	10	200/250	0.5/1.2	89F1395 / 	57065-000	89F1388 / 
59065-020*			0.15	0.8	SPST-NO	10	300/450	0.5/1.5	96B7456 / 	57065-000	89F1388 / 
59065-030			0.15	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7992 / 	57065-000	89F1388 / 
59065-040			0.15	0.8	SPST-NC	5	175/200	0.25/1.5	98F8218 / 	57065-000	89F1388 / 
59070-010	M8 x 1.25 THD Threaded Barrel with Two Retaining Nuts	12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.15	0.8	SPST-NO	10	200/250	0.5/1.2	89F1396 / 	57070-000	89F1389 / 
59070-020*			0.15	0.8	SPST-NO	10	300/450	0.5/1.5	29C5688 / 	57070-000	89F1389 / 
59070-030			0.15	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7975 / 	57070-000	89F1389 / 
59085-010	6.35mm (0.250") Vane, Single Screw Mount and Location Feature	...	0.1	0.25	SPST-NO	5	175/200	0.25/1.5	22C0934 / 	...	...
59085-030			0.1	0.1	SPDT-CO	5	175/200	0.25/1.5	94F6953 / 	...	...
59085-040			0.1	0.25	SPST-NC	5	200/250	0.5/1.2	89F1397 / 	...	...
59105-010	Terminal Flange Mount with Shrouded	Shrouded Terminals Compatible with Molex®	0.15	0.8	SPST-NO	10	200/250	0.5/1.2	89F1398 / 	57105-000	89F1390 / 

59105-020*	Terminal, Glue or Screw Fixing	SL Connector or Equivalent	0.15	0.8	SPST-NO	10	300/450	0.5/1.5	49H4222 / 	57105-000	89F1390 / 
59125-010	Pinned Flange Mount with 2-On Connection, Glue or Screw Fixing	Moulded in Terminal Pins for Push-On Connector or Wire Wrap	0.15	0.8	SPST-NO	10	200/250	0.5/1.2	89F1399 / 	57125-000	89F1391 / 
59125-020*			0.15	0.8	SPST-NO	10	300/450	0.5/1.5	49H4223 / 	57125-000	89F1391 / 
59135-010	High Temperature Flange Mount Rated for Operation up to 200°C, Glue or Screw Fixing	12" (304mm) 200°C Teflon Insulated Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.35	1.15	SPST-NO	10	200/250	0.5/1.2	89F1402 / 	57135-000	89F1392 / 
59135-020*			0.35	1.15	SPST-NO	10	300/450	0.5/1.5	50F1080 / 	57135-000	89F1392 / 
59135-030			0.35	1.15	SPDT-CO	5	175/200	0.25/1.5	94F6935 / 	57135-000	89F1392 / 
59140-010	Mini Flange Mount, 3.2cm ² Area, Glue or Screw Fixing	12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.175	0.8	SPST-NO	10	200/250	0.5/1.2	89F1403 / 	57140-000	89F1400 / 
59140-020*			0.175	0.8	SPST-NO	10	300/450	0.5/1.5	88F6173 / 	57030-000	49H4199 / 
59140-030			0.175	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7977 / 	57140-000	89F1400 / 
59140-040			0.175	0.8	SPST-NC	5	175/200	0.25/1.5	34C3227 / 	57140-000	89F1400 / 
59145-010	Flange Mount RH Cable Exit Right Hand Side, Glue or Screw Fixing	12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.225	0.8	SPST-NO	10	200/250	0.5/1.2	89F1404 / 	57145-000	89F1401 / 
59145-020*			0.225	0.8	SPST-NO	10	300/450	0.5/1.5	20C2929 / 	57145-000	89F1401 / 
59145-030			0.225	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7978 / 	57145-000	89F1401 / 
59145-040			0.225	0.8	SPST-NC	5	175/200	0.25/1.5	99F4511 / 	57145-000	89F1401 / 
59150-010	Flange Mount LH Cable Exit Left Hand Side, Glue or Screw Fixing	12" (304mm) Flying Lead, 1/4" (6.3mm) Stripped Back, Untinned	0.225	0.8	SPST-NO	10	200/250	0.5/1.2	94F6936 / 	57150-000	50F7988 / 
59150-020*			0.225	0.8	SPST-NO	10	300/450	0.5/1.5	88F3006 / 	57150-000	50F7988 / 

59150-030			0.225	0.8	SPDT-CO	5	175/200	0.25/1.5	50F7979 / 	57150-000	50F7988 / 
59210-020	Clip Mounting Optional Return Spring, Shrouded Terminals	Shrouded Terminals Compatible with Molex® SL Connector or Equivalent	...	...	SPST-NO	10	250/200	0.5/1.2	90B4685 / 	57140-000	89F1400 / 

Series 59085 contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. **NO** = Normally Open; **NC** = Normally Closed; **CO** = Changeover.

* High Voltage

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