

monitoring devices

M

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monitoring devices

M1 TEMPERATURE SWITCHES

All items are self-grounding, normally Off. Heavy duty, corrosion-resistant. Switches utilize PTF or NPTF dryseal thread which requires no sealant. Switches close a ground circuit to indicator lights or other warning devices that warn of a 'hot' or 'cold' condition. Cannot be used with gages. .250" blade (6.4mm) terminal except where noted.

For use with indicator light or buzzer

84210
On at 239° to 271°F. 1/2" -14 thread.



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 15/16". (115.0 – 132.8°C).

Replaces: Delco 1993426, 427, D-1879, GMC 6490970, 25036512, Motorcraft SWG-485.

84218
On at 184° to 216°F. 1/2" -14 thread.



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 15/16". (84.4 – 102.2°C).

84227
On at 232° to 264°F. 1/2" -14 thread.



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 15/16". (111.1 – 128.9°C).

Replaces: Delco 1993444, 445, 508, 513, 582, 588, 1994061, D1858, 59, 68, GMC 6490152, 25036507, Motorcraft SWG-485.

84229
On at 246° to 266°F. 3/8" -18 thread.



3/8" -18 dryseal thread mounting stem (NPTF).
Mounting hex flat 13/16". Stud terminal. (118.9 – 130.0°C).

Replaces: Delco F1853, Ford C8GY, D1FZ, D6AZ, E43Z-10884A, Motorcraft SW-663, SW-983, SW-1344, SW-1344.

CONTINUED **M1**

84236

On at 251° to 283°F. 1/2" -14 thread.



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 15/16". (122.0 – 139.4°C).
.250" blade terminal.

Replaces: Delco 1993445, 1993496, 1994061, D1867, D1879,
GMC 6489179, 6489395, 6489766, 6490694, 6490970,
25036512, Motorcraft SWG-1187, SWG-1340.

84248

On at 253° to 273°F. 3/8" -18 thread. ★



3/8" -18 dryseal thread mounting stem (NPTF).
Mounting hex flat 13/16". (122.8 – 133.9°C).
.250" blade terminal.

Replaces: Delco D-1896, GMC 8992347, 8993427, 25036035,
042, 139, 300, 371, 452, 468, 535, Motorcraft SWG-2051.

84251

On at 190° to 210°F. 3/8" -18 thread. ★



3/8" -18 dryseal thread mounting stem (NPTF).
Mounting hex flat 13/16". (87.8 – 98.9°C).
.250" blade terminal.

Part of Cole Hersee marine engine warning kit M-40177BP
(See Section N1).

For use with two indicator lights

Green light is normally used for Cold/Off, Red for Hot/On.
1/2" -14 thread.

84211*



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 1 1/16". Two bullet terminals.
Cold: Normally On. Off at 106 - 118°F (41.1 - 47.8°C).
Hot: Normally Off. On at 237 - 249°F (113.9 - 126.1°C).

Replaces: Delco 198683, 684, 740, 741, D862.

84213*



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 1 1/16". Two .250" blade terminals.
Cold: Normally On. Off at 106 - 118°F (41.1 - 47.8°C).
Hot: Normally Off. On at 247 - 259°F (119.4 - 126.1°C).

Replaces: Chrysler 2497651, 2580242, 2857562, CH-2515,
CH-2516, CH-2520, Delco 1993181, 303, 350, 521, 561, 580,
581, 1998189, 140, 181, 746, 6400211, 6402372, D-1851,
D-1857, D-1860, GMC 6402778.

84230*



1/2" -14 dryseal thread mounting stem (PTF-SAE short).
Mounting hex flat 15/16". Two .250" blade terminals.
Cold: Normally On. Off at 87 - 119°F (30.6 - 48.3°C).
Hot: Normally Off. On at 259 - 291°F (126.1 - 143.9°C).

Replaces: Delco G1861, GMC 6489600, 6489903, 6490094,
6490452, 8992238.

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply.



monitoring devices

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M2 TEMPERATURE SENDERS

All items are self-ground. Senders utilize PTF dryseal thread which requires no sealant. Senders are wired to a temperature gauge to provide a continuous monitoring of engine temperature situation. Resistance is cited at 220°F (104.4°C). 1/4" -18 thread.

84201*
43 to 51 Ohms



1/4" -18 dryseal thread mounting stem (PTF).
Mounting hex flat 15/16".

Replaces: AMC 3144585, Chrysler 1507050, 1770732, 1842555, AL-14405A, 135550A, CH-2503, Delco C1850, Motorcraft SW-338, SW-339.

84204*
11.5 to 13.5 Ohms



1/4" -18 dryseal thread mounting stem (PTF).
Mounting hex flat 5/8". Stud terminal: 10-32.

Replaces: Delco 1994095, D1866, GMC 6490793.

monitoring devices

M3 OIL PRESSURE SWITCHES

Self-grounding SPST Normally On (except 86302-02). Contacts open at rising pressure, close at falling pressure. Heavy duty construction. Weather-resistant. Plated steel case. Molded moisture-repellent insulators. Conservative burst pressure: 750 psi (5171.1 kPa).

8601*
Off at: 6 - 10 psi.
1/4" -18 thread.



Normally On, Off at: 6 - 10 psi (41.4 - 68.9 kPa).
1/4" -18 mounting stem.

Replaces Delco 1508434, 1997884, 1998113, 3632326, 488.

8602*
Off at: 3 - 7 psi.
1/4" -18 thread.



Normally On, Off at: 3 - 7 psi (20.7 - 48.3 kPa).
1/4" -18 mounting stem.

Replaces Delco 1508754, 3751611, 3815935, 937, 6439312.

8606★
Off at: 2 - 6 psi.
1/8" -27 thread.



Normally On, Off at: 2 - 6 psi (13.8 - 41.4 kPa).
.250" blade terminal. 1/8" -27 mounting stem.

Replaces AMC 1539889, 3142826, Chrysler 4169629, Delco 499581, 534598, 1359289, 1408319, 1508319, 668, 1598319, 1994214, 1998713, 3200422, 3818783, 5653196, 397, 462, D-2471, Ford DORY-9278-A, International 280891-C91, 356079-C, 425491-R91, 31428266, Motorcraft Sw-334, SWG-334, SWE-1030, Trucks: Chevrolet 85-89, Dodge 85-86, GMC 85-89, International 59-67, 78-80.

8607*
Off at: 3 - 7 psi.
1/8" -27 thread.



Normally On, Off at: 3 - 7 psi (20.7 - 48.3 kPa).
Terminal: male pin, .118" diameter. 1/8" -27 mounting stem.

Replaces Delco 1508245, 1998082.

CONTINUED **M3**

M monitoring devices

M3 OIL PRESSURE SWITCHES

8609
Off at: 4.5 - 7.5 psi.
1/8" -27 thread.



Normally On, Off at: 4.5 - 7.5 psi (31.0 – 51.7 kPa).
8-32 stud terminal. 1/8" -27 mounting stem.

8610
Off at: 4.5 - 7.5 psi.
1/8" -27 thread.



Same as 8609, but with combination blade and stud terminal.

86255
Off at: 3 - 7.5 psi.
1/4" -18 thread.



Normally On, Off at: 3 - 7.5 psi (20.7 – 51.7 kPa).
1/4" -18 mounting thread. Button terminal.

Replaces Delco 1350116, 1359288, Motorcraft SW-474.

86263*
Off at: 2.5 - 5 psi.
1/4" -18 thread.



Normally On, Off at: 2.5 - 5 psi (17.2 – 34.5 kPa).
.250" blade terminal. 1/4" -18 mounting stem.

Replaces Chrysler 4379037, Delco 1370748, 1508648, D-1805,
Motorcraft SW-611, SWG-611.

86268*
Off at: 3.5 - 7.5 psi.
1/4" -18 thread.



Normally On, Off at: 3.5 - 7.5 psi (24.1 – 51.7 kPa).
1/4" -18 mounting stem.

Replaces Delco 2482378, F-1803, F-1804, Ford C8AZ, DOHZ-
9278-A, D5AZ-9278C, D5AZ-9278-E, Motorcraft SW-670,
SW-674, SW-1311, Trucks: Ford 67-89, GMC 66-72.

86275*
Off at: 3.5 - 7.5 psi.
1/8" -27 thread.



Normally On, Off at: 3.5 - 7.5 psi (24.1 - 51.7 kPa).
1/8" -27 mounting stem.

Replaces Delco 549099, D-1802.



connectors

See Section Q4.

button terminals



switch
86255

These terminals accept standard female snap-on terminations that can be slid quickly onto the button terminal, and can be easily removed. When properly connected, terminations will stay securely attached to the button.

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply.



SPST, Insulated, Normally Off

86272
On at: 2 - 6 psi.
1/8" -27 thread.



On at 2 - 6 psi (13.8 – 41.4 kPa).
Mounting stem: 1/8"-27 dryseal thread.

Replaces Delco 45784, 10012967, 10018158, 10002798, 25036001, Motorcraft SWG-1702.

86277*
On at: 2 - 6 psi.
1/4" -18 thread.



On at 2 - 6 psi (13.8 – 41.4 kPa).
Mounting stem: 1/4"-18 dryseal thread.

Replaces Delco 1260636, 25500672, 25502419, D-1819, Motorcraft SWG-1705.

86284
On at: 2 - 6 psi.
1/8" -27 thread.



On at 2 - 6 psi (13.8 – 41.4 kPa).
Mounting stem: 1/8"-27 dryseal thread.

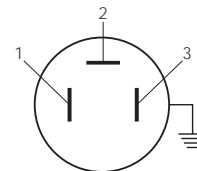
Replaces AMC 5758695, Delco 10001858, 14004902, 25036279, 533, D-1818, International 1324244-R91, Motorcraft SWG-1709.

86302-02
On at: 4-11 psi.
1/8" -27 thread.



On at: On at 4-11 psi (27.5 - 75.8 kPa).
Two silver-plated male blade terminals .25" (6.4mm) wide.

DPST, One grounded, one insulated circuit



8659
1/8" -27 thread.



Mounting stem: 1/8"-27 dryseal thread. Operation: circuit 1 – terminal 2 normally closed to ground, opens at 9 - 16 psi (62.1 – 110.3 kPa); circuit 2 - terminals 1 & 3 normally open, close at 9 - 16 psi.

86279*
10 x 1mm thread.



Mounting stem: 10x1mm taper pipe thread. Operation: circuit 1 – terminal 2 normally closed to ground, opens at 4 - 6 psi (27.6 – 41.4 kPa); circuit 2 - terminals 1 & 3 normally open, close at 5 - 7 psi (34.5 – 48.3 kPa).

Replaces AMC 3250466, Chrysler 4186353, 4267021, 5209953, CH-2489, Motorcraft SWX-1707.

86281
1/8" -27 thread.



Mounting stem: 1/8"-27 dryseal thread. Operation: circuit 1 – terminal 2 normally closed to ground, opens at 2 - 8 psi (13.8 – 55.2 kPa); circuit 2 - terminals 1 & 3 normally open, close at <11 psi (75.9 kPa).

Replaces AMC 331347, Chrysler 3747431, Delco 14057554, Jeep 4186352, Motorcraft SWG-1708.

CONTINUED **M4**

★ Rapid ship item. **BP** Available in retail clamshell pack. ★ Minimum order quantity may apply.

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M4 OIL PRESSURE/ELECTRIC CHOKE SWITCHES

86282*

10 x 1mm thread.



Mounting stem: 10x1mm taper pipe thread. Operation: circuit 1 – terminal 2 normally closed to ground, opens at 2 - 6 psi (13.8 – 41.4 kPa); circuit 2 - terminals 1 & 3 normally open, close at 9.5 psi or less (65.5 kPa).

Replaces AMC 3250466.

86283*

3/8" -18 thread.



Mounting stem: 3/8"-18 dryseal thread. Operation: circuit 1 – terminal 2 normally closed to ground, opens at 4 - 7 psi (27.6 - 48.3 kPa); circuit 2 – terminals 1 & 3 normally open, close at 6 - 9 psi (41.4 - 62.0 kPa).

Replaces Chrysler 3747430, 3747722, 4205921, CH-2490, Motorcraft SWC-1710.

monitoring devices

M5 VACUUM SWITCHES

Normally On, SPST

Contacts open at rising vacuum, contacts close at falling vacuum. Mounting stem: 1/8" -27 dryseal thread. Operating range: 9 - 12 inches of mercury, break (30.5 – 40.6 kPa).

8641 Self-grounding



Replaces AMC 3157693, 3202448, International 196198-R91.

9253 Insulated ★



Replaces AMC 3156149, Chrysler 1770093, CH-2569, Ford C2TA-11516-A.

Normally Off, SPST

92007

On at 7-13" Hg



Insulated. Contacts close at rising vacuum, contacts open at falling vacuum.

Operation: Make at 7 - 13 inches of mercury, (23.7 - 44.0 kPa). Mounting stem: 1/8" -27 dryseal thread.

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply.



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M6 AIR PRESSURE SWITCHES

For dependable operation of low air pressure warning systems. Sealed contact design to prevent short circuits caused by moisture and contaminants.

SPST Normally On

Contacts open at rising pressure.

8604

Off at: 55 - 65 psi.

1/4" -18 thread.



Mounting stem: 1/4" -18 dryseal thread 15/32" long. Insulated. Normally closed, open at 55 - 65 psi (379.2 - 448.2 kPa). 8-32 screw terminal.

SPST Normally Off

Contacts close at rising pressure.

8658

On at: 2 - 5 psi.

1/4" -18 thread.



Contacts close at 2 - 5 psi (13.8 - 34.5 kPa). 8-32 screw terminals. Insulated.

8640

Off at: 60 - 70 psi.

1/4" -18 thread. ★



Mounting stem: 1/4" -18 dryseal thread. Normally closed, open at 60 - 70 psi (413.7 - 482.6 kPa). 8-32 stud terminal.

Replaces Chrysler 1787025, 1788700, Delco 3750911, 3929518, Ford B6Q, B8Q-18737A, C5TZ-2A574A, International 194702-R91, Motorcraft SW-377.

8646

Off at: 60 - 70 psi.

1/4" -18 thread.



Mounting stem: 1/4" -18 dryseal thread. Normally closed, open at 60 - 70 psi (413.7 - 482.6 kPa). 8-32 screw terminal.

Replaces Chrysler 1787025, Mack 1MR-1169AP1, White 495537.



pilot lights

See Section N2.

8647 Normally Off, Electric Fuel Pump Switch ★



Operation: Contacts close at 3.5 - 6.5 psi (44.9 - 24.2 kPa)
Mounting stem: 1/8" -27 dryseal thread 11/32" long.
.250" blade terminals. Insulated contacts.

Replaces Chrysler 1841416, 2510026, International 217552-R-91.

switch or sender?

What's the difference between a switch and a sender?

A switch is a make or break device that has two states — either On or Off. It is typically used to turn a warning device On or Off. For example: when a temperature switch reaches a preset temperature, it will cause a lamp to light or buzzer to sound so that the operator can take appropriate action.

A sender is a variable resistance device that's used in a circuit with a gauge or meter. For example: A temperature sender provides a continuous signal to a gauge as the temperature rises and falls.

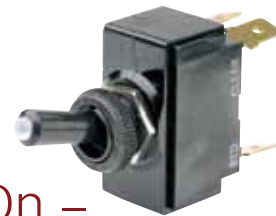
Think of your car's engine temperature indicator on the dashboard. If there's a warning light, it's controlled by a switch. If there's a gauge, it's controlled by a sender or sensor.

buzzers & alarms



Can be used with manual switches (toggles, rockers, etc.) or with switches in Section M.

red light On – white light Off



Illuminated toggle switch clearly identifies On and Off positions. Available in SPST On-Off and SPDT On-Off-On. See Section B4.