

DD/DM Indicator Pin Monitor

Dualine Valves



General

The Dualine Indicator Pin Monitor utilizes high quality sensors with built in LED's. The sensor will read movement of the Dualine indicator pin during each lubrication cycle. This ensures that lubricant has reached the Dualine Valve. It will allow the user to monitor Dualine valve/pin operation remotely from any PLC.

Application

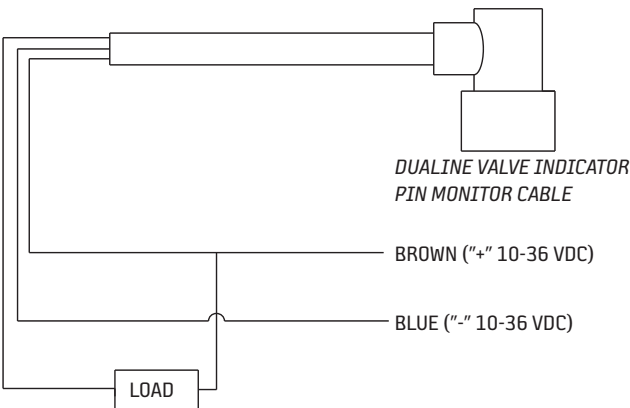
The Dualine Indicator Pin Monitor is available for any DD50 or DM60 Series Valve.



Technical Data

Sensor

Rated Operating Distance	1.6 mm
Supply Voltage	10-36 VDC
Output Current	100 mA
LED	Built-in
Temperature	-13°F to 158°F (-25°C to 70°C)
Output / Polarity	N.O. / NPN
	N.O. / PNP
Polarity Reversal Protection	Built-in
Power On Reset	Built-in
IP Rating	IP67/IP68
Material	Stainless steel V2A (housing)
Connection	M12 connector



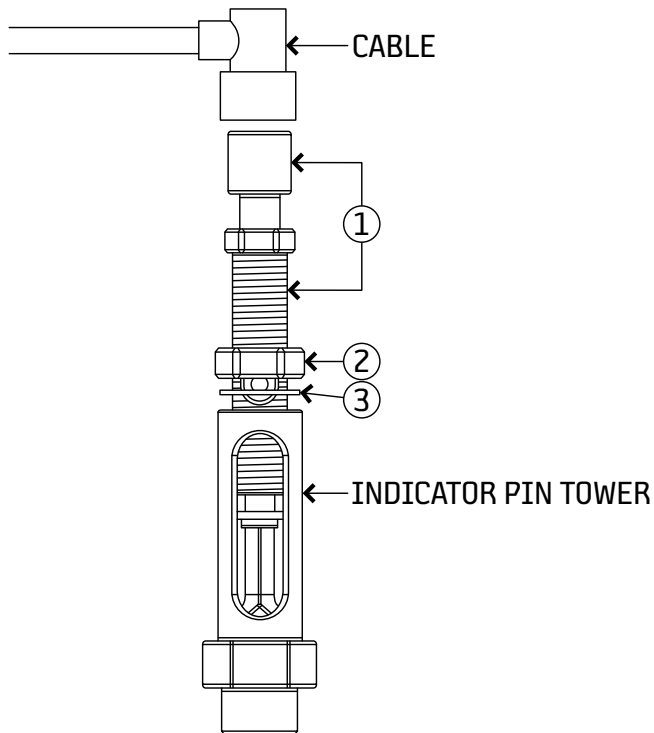
BLACK (OUTPUT; 10-36 VDC, 100mA MAX LOAD)
[TYPICAL LOAD- LED OR AUTOMOTIVE TYPE RELAY]

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Wiring



WARNING

Over-tightening the retaining nut can cause damage to the body of the Dualine Indicator Pin Monitor assembly.

ATTENTION

Refer to Service Parts chart on page 4 for part #'s.

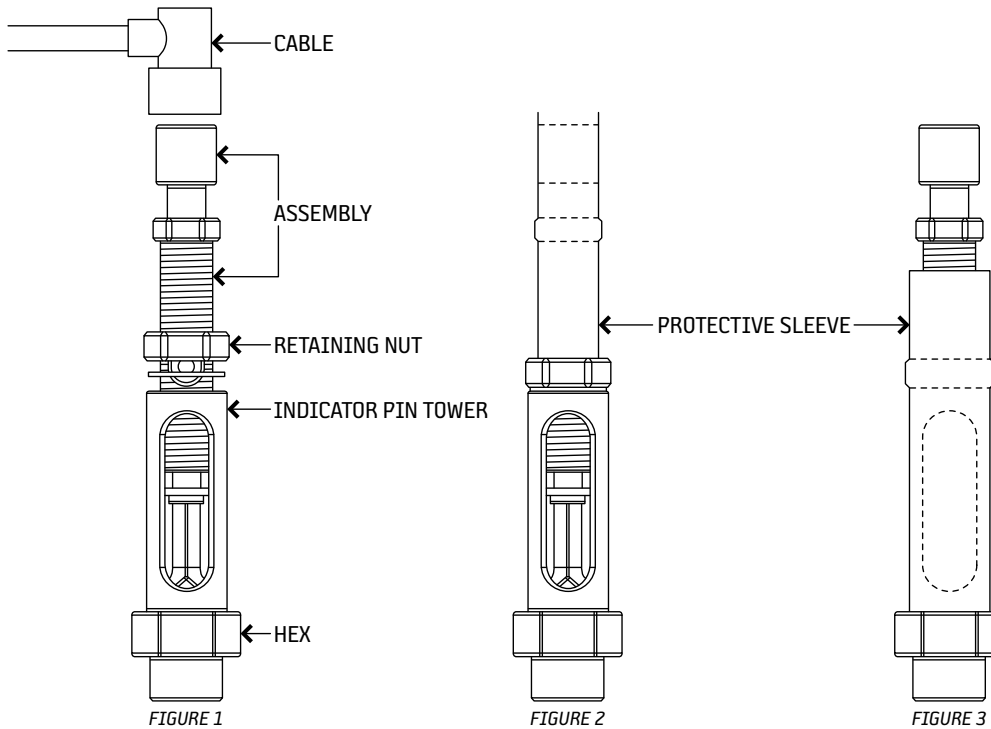
Installation

- + If the Dualine Valve has been set to a specific output volume, mark the bottom edge of the lower set screw in the Indicator Pin Tower (there are two set screws, one is for adjustment of the valve, the other holds the adjustment set screw in place) on the tower.
- + Turn the Retaining Nut (2) onto the Monitor Assembly (1) starting from the bottom, and place the Retaining Lock-Washer (3) on the assembly below the Retaining Nut.
- + Remove the two set screws in the tower and replace with the Pin Monitor Assembly. Line up the bottom edge of the assembly pin approximately 1/8" below the mark that was made on the tower in the prior step.
- + If the Dualine Valve adjustment set screw has not been set (new Dualine Valve installation), refer to the Dualine Valve installation instructions for proper setting of the adjustment set screw, and then return to the step above.
- + Attach the cable to the pin sensor to determine if the cable is oriented in the proper direction. If when attached, the cable is not oriented in the proper direction, turn the assembly one direction or the other as much as needed to enable the cable to be oriented in the proper direction when attached. This slight rotation of the assembly should have little effect on the Dualine Valve output.
- + Tighten the retaining nut securely, but use caution to prevent over-tightening the retaining nut.
- + Attach the Monitor Cable, and make the appropriate wiring connections to your PLC or other monitoring device. Refer to the *Wiring* section on page 1.

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ATTENTION

3" proximity switch protective sleeve and indicator tower sleeve supplied with each kit.

- + Slide the proximity switch protective sleeve over the retaining nut to the top of the Indicator Pin Tower. (see *Figure 2*).
- + Then trim the excess length as needed.
- + Slide the indicator tower protective sleeve over the tower to the top of the hex at the tower base (see *Figure 3*).
- + Then trim the excess length as needed.

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How to Order

Name	Description	NPN Part #	PNP Part #
Dualine Valve Indicator Pin Monitor Kit	For DD50 & DM60*	37290	37290-1
<i>Note: 1 kit per indicator pin to be monitored; 3" proximity switch protective sleeve and indicator tower sleeve supplied with each kit.</i> <i>* Consult factory for DM60 built before May 2024.</i>			

When ordering, specify by name, description and part number, e.g. Dualine Valve Indicator Pin Monitor Kit, For DM60, Part #37291.

Service Parts

Item	Description	Part #
1	Monitor assembly NPN	37278
	Monitor assembly PNP	37278-1
2	Retaining nut	37286
3	Retaining lock-washer	37288

Accessories

Description	Part #
Cable (Straight, 10 meters long) ¹	76928-2863
Cable (90°, 10 meters long) ¹	76928-2833
Proximity switch protective sleeve (7/16" ID) ²	37300-2
Indicator pin tower protective sleeve (5/8" ID) ² .	37301-2
¹ Cables supplied separately.	
² Protective sleeving sold per foot.	

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