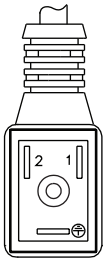
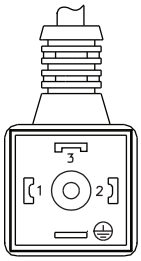
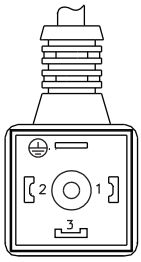
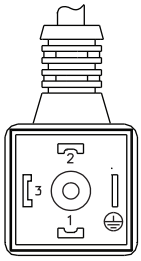
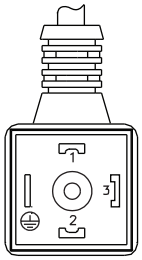
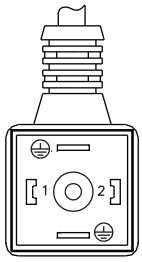
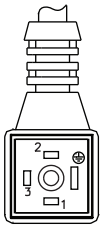
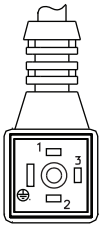
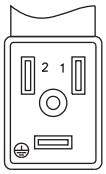
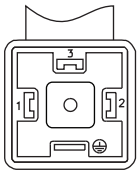
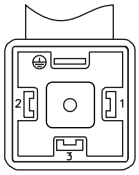
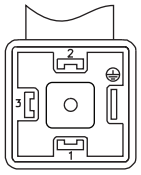
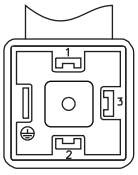
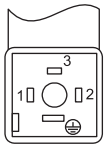
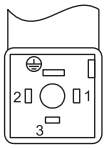
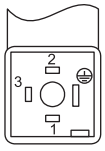
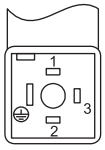
Molded Connector Orientation Options

	Ground Down	Ground Up	Ground Right	Ground Left	Dual Ground
MINI			--	--	--
ISO					
Sub-Micro (8mm& 9.4mm)					

Field Wireable Connector Orientation Options

	Ground Down	Ground Up	Ground Right	Ground Left
MINI			--	--
ISO				
Sub-Micro (8mm& 9.4mm)				

canfield connector

Coil Saver®

5FMSD SERIES

IN-LINE MICRO SOLENOID DRIVER POWER CONVERTER WITH MOLDED SOLENOID VALVE CONNECTORS

GENERAL DESCRIPTION

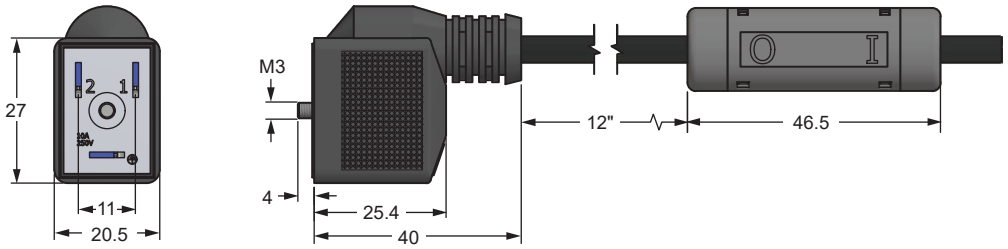
The Canfield Connector 5FMSD Series is a solenoid driver circuit (Coil Saver) tucked away in our in-line electronics package coupled with our 5F all-molded DIN solenoid valve connector/gasket/cord assembly for ISO DIN Style “A” EN175301-803 (Formerly DIN 43650), MINI and 9.4mm (Industry Standard) and 8mm Sub-Micro (DIN 43650 “C”) connectors. The integrated gasket design boasts an IP67/NEMA 6 rating and makes it impossible to lose the gasket. The Coil Saver enhances solenoid valve function as it lowers the wattage of solenoid operators of solenoid valves as it first applies a full voltage to ensure strong pull-in then drops the current when the solenoid magnetic circuit is most efficient and lowers wattage during long term energization or repeated cycles and lower RMS wattage. The fully encapsulated enclosure design allows for the Coil Saver to be isolated from the heat of the solenoid as well as installed upstream, away from the coil connector that is designed for this heat. The in-line package can control input DC voltage and supplies PWM VDC to the coil. The low profile "straight-line" interface/cord configuration allows for installation in many limited space applications and is proudly made in the U.S.A.

ISO, Unlighted version shown above

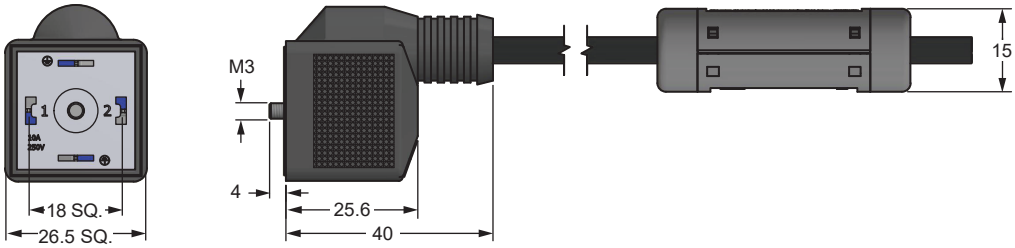
DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

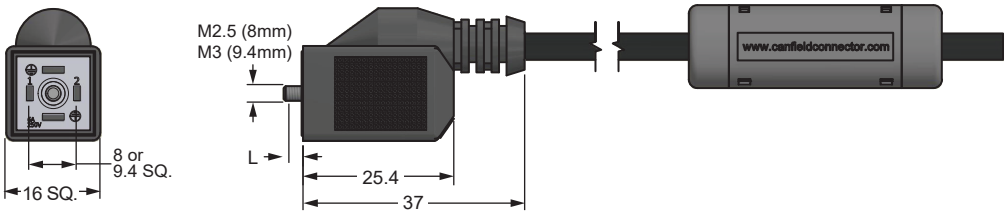
MINI



ISO



SUB-MICRO



TECHNICAL DATA

Output Current	Inrush: 8 Amps for 50 ms Holding: 1 Amp
Output Voltage Range	10% - 70% DC of Input
Input Voltage	12-24 VDC
Allowable Input Voltage DC Ripple	20% peak to peak
Input Voltage Tolerance	10%
Materials	Enclosure: Polyurethane Module: PA and Polyurethane
Temperature Range	-20° to +80°C
Environmental Protection	IP 67 AND NEMA 6, Dust tight and water resistant
Cable Diameter	0.190
Cable Conductor Colors	EU Code: Blue, brown, yellow/green US Code: Black, green, white (Others available on request)
Cable Type	Pressure extruded PVC jacket (Others available on request)
Wire Gauge	20 AWG standard
Size	ISO: 18mm pin spacing - DIN Style “A” EN175301-803 MINI: 11mm pin spacing - Industry Standard Sub-Micro: 8mm pin spacing - DIN Style “C” EN 175301-803 Sub-Micro: 9.4mm pin spacing - Industry Standard
Number of Contacts	2+ ground

NOTE: Slight discoloration may occur to translucent material after prolonged exposure to UV rays.
NOTE: When using MAC Valves with MINI and 9.4mm Sub-Micro, consult our factory.

WIRING INFORMATION

Terminal Configuration		
Wire Type	EUR	US
⏚ Chassis Ground	YEL & GRN	GRN
(+) Pos. / Hot Pin 1	BRN	BLK
(-) Neg. / Neut. Pin 2	BLU	WHT

ORDERING INFORMATION

All connectors come standard with integrated gasket and screw.

5 F M S D □□ 0 - 0 □ □ - □□ 0 □

Connector Type
3 - 8mm SM
4 - 9.4mm SM
5 - MINI
6 - ISO

Wire Length
6 - 6 Feet
F - 15 Feet
Additional wire lengths available

Output Voltage
1 - 10%
2 - 20%
3 - 30%
4 - 40%
5 - 50%
6 - 60%
7 - 70%

Packaging Code
A - Bulk
G - Individual bagged
L - Bulk MAC screw
N - Individual bagged MAC screw
MAC is the registered trademark of MAC Valves, Inc.

Wire Type
EU - European Code
US - US Code

Lighting Option
0 - Unlighted
1 - Lighted

Ordering Example: 5FMSD360-010-EU0A

8mm SM, 6 Ft., 10% output voltage,
Unlighted, European wire type, Bulk