

Linkage Free Integral-Type

Actuators provide proportional fuel control for construction, industrial, and agricultural equipment. For direct mounting to specific engines.



Features:

- Direct replacement for integral mount fuel shutoff solenoid
- Fuel pump shutoff force built into actuator
- Responds in milliseconds to changes in current from a pulse width modulated signal generated by the controller
- Precise engine speed control when used with APECS electronic controllers (See Controllers section, pages 74-83, for ordering information)
- Simple installation, no brackets or linkages necessary

Available for:

- Kubota Super 5 Series
- Kubota 3300 Series
- Mitsubishi SL Series
- Perkins 700 Series
- Yanmar TNE Series
- Yanmar 2V78 Series

Order Information:

ORDER NO.	Engine Series	Model	Voltage
SA-4573-12	Kubota Super 5	0175-12 A5LS Kubota	12 VDC
SA-4573-24	Kubota Super 5	0175-24 A5LS Kubota	24 VDC
SA-4828-12	Kubota 3300	0175-12 A6LS Kubota	12 VDC
SA-4828-24	Kubota 3300	0175-24 A6LS Kubota	24 VDC
SA-4837-12*	Mitsubishi SL	0175-12 B7LS Mitsubishi	12 VDC
SA-4837-24*	Mitsubishi SL	0175-24 B7LS Mitsubishi	24 VDC
SA-4777-12	Perkins 700	0175-12 A6LS Perkins	12 VDC
SA-4777-24	Perkins 700	0175-24 A6LS Perkins	24 VDC
SA-4574-12	Yanmar TNE	0175-12 S5LS Yanmar	12 VDC
SA-4574-24	Yanmar TNE	0175-24 S5LS Yanmar	24 VDC
SA-4848-12	Yanmar 2V78	0175-12 S6LS Yanmar	12 VDC
SA-4848-24	Yanmar 2V78	0175-24 S6LS Yanmar	24 VDC

*Threaded-mount unit, locknut supplied

E.E.C. Directive Compliance: All parts supplied by Woodward are classified as components, and therefore are not "CE" marked. Please contact factory direct for details on specific product compliance with 89/336/EEC and 89/392/EEC directives.

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Electrical Specifications:

Rated Voltage	12 or 24 VDC
Rated Current	4.3 A (12 VDC) 2.3 A (24 VDC)
Input Signal	Pulse width modulated
Connections	Two wires, open lead

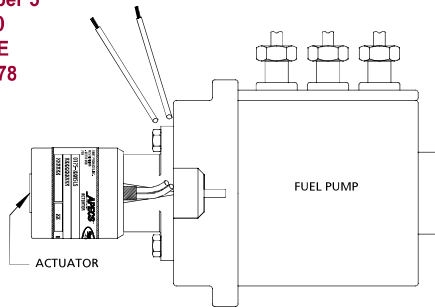
Mechanical Specifications:

Temperature Range	-40°F to + 250°F (-40°C to + 121°C)
Vibration	15 G's from 50 to 500 Hz sinusoidal, 3-planes
Shock	200 G's, 0-Peak @ 21 Hz
Housing	Anodized aluminum, sealed up to 3 psi for environmental protection

Engine Series	Stroke	Weight
Kubota Super 5	0.47" (12 mm)	1.16 lbs (0.53 kg)
Kubota 3300	0.47" (12 mm)	1.16 lbs (0.53 kg)
Mitsubishi SL	0.53" (13.5 mm)	1.28 lbs (0.58 kg)
Perkins 700	0.63" (16.0 mm)	1.19 lbs (0.54 kg)
Yanmar TNE	0.29" (7.4 mm)	1.19 lbs (0.54 kg)
Yanmar 2V78	0.29" (7.4 mm)	1.19 lbs (0.54 kg)

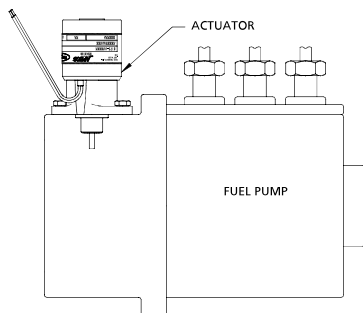
SIDE MOUNTING

Actuator mounts directly to fuel pump in place of the fuel shutoff solenoid
Kubota Super 5
Perkins 700
Yanmar TNE
Yanmar 2V78



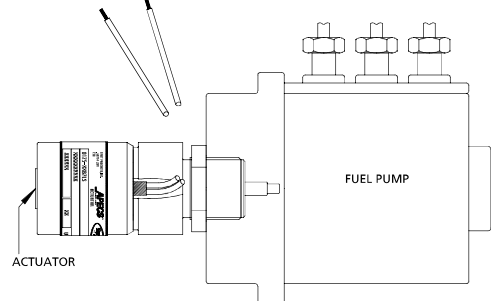
TOP MOUNTING

Kubota 3330



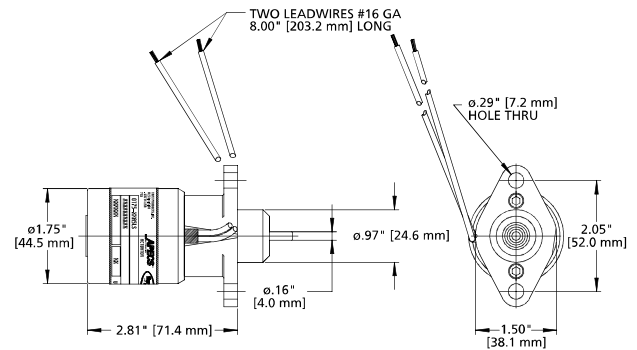
THREAD MOUNTING

Mitsubishi SL

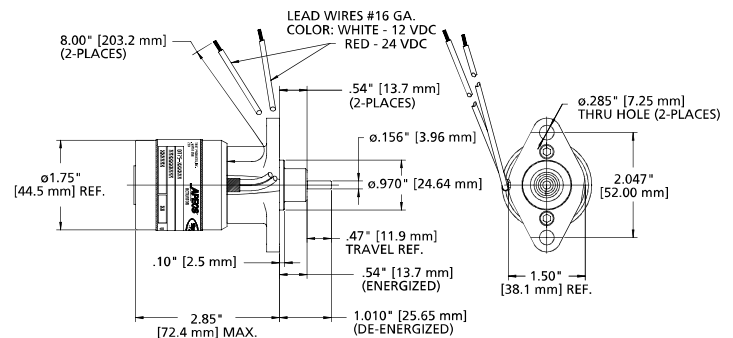


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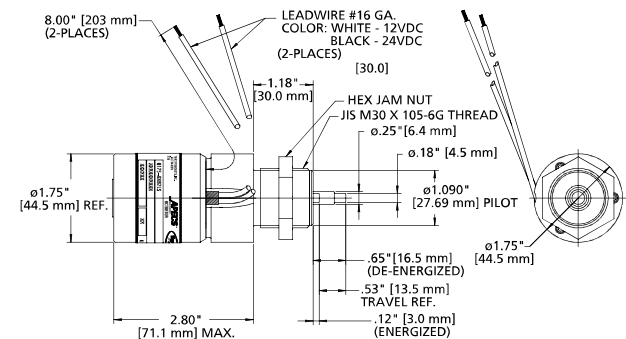
KUBOTA SUPER 5 SERIES



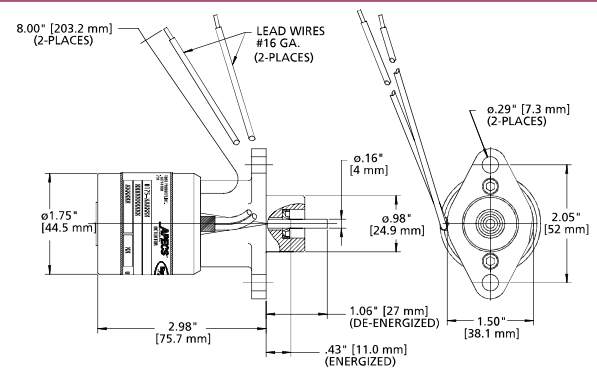
KUBOTA 3300 SERIES



MITSUBISHI SL SERIES

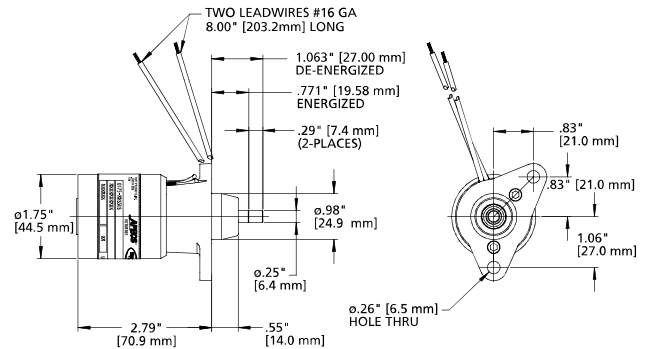


PERKINS 700 SERIES

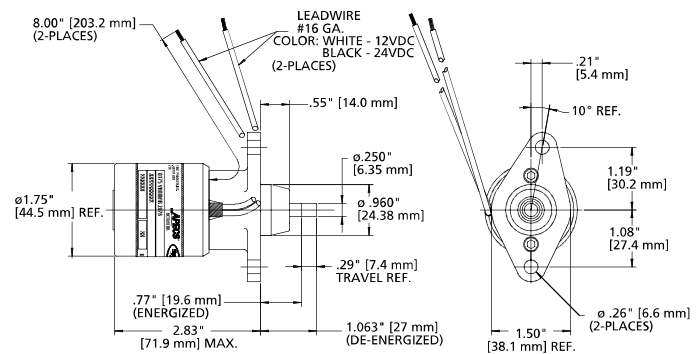


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YANMAR TNE SERIES



YANMAR 2V78 SERIES



Specifications are for reference only.



WARNING: An overspeed shutdown device, independent of the APECS system, should be provided to prevent loss of engine control that may cause personal injury or equipment damage.