

TRIPMATE™ 2012

Plunger Arrival Sensor
9202-2021000



FEATURES

- ▶ **Easy Installation**
strap-on hold down
- ▶ **Small Package Size**
narrow body case
- ▶ **2-Wire Hook Up**
Internal 7+ year battery
- ▶ **3-Wire Powered**
3Vdc - 24Vdc ext. power
- ▶ **Integral Conduit Port**
1/2" Male Conduit
- ▶ **Deep Penetrating**
high strength magnet
- ▶ **Long Term Reliability**
epoxy sealed unit
- ▶ **High Powered Switch**
30 volts at 2 amperes
- ▶ **Intrinsically Safe**
CSA Class 1 Division 1

APPLICATIONS

- ▶ **Plunger / Gas Lift**
- ▶ **Stroke Counter**
- ▶ **Proximity Sensing**
- ▶ **Automation Sensor**
- ▶ **Piston Timing**
- ▶ **Tank Level Control**
- ▶ **Plunger Arrival**
- ▶ **Magnetic Shut-Off**

Magnetic induction switch penetrates through metal and non-metal materials to sense metal objects moving past the switch. Unique internal self-calibrating circuits automatically adjust sensitivity for optimum sensor performance to provide a minimum 1 second trigger pulse length. Rugged and durable, the TripMate™ 2012 magnetic shut-off switch is the perfect solution for industrial applications that require plunger arrival sensing, piston stroke counting or magnetic power switch control.

Simple installation saves time and money. The TripMate's narrow body package fits into those hard-to-get-to places. A UV-resistant rubber hold-down secures the TripMate to the well head pipe. An integral 1/2" male conduit port provides a simple interface for both rigid and flexible 1/2" conduit to meet even the most demanding electrical code requirements. The TripMate's screw cover protects connections to its removable 3-terminal screw block from both tampering and harsh environments.

Ideal switch configuration allows both high-side and low-side power switching for latching pneumatic valve and electrical relay control. Electrical isolation between internal sensing circuits and switch terminals provides ideal, low-loss switch for low voltage, pull-down and pull-up control signal applications. A high current switch rating, low on-resistance, and electrical isolation combine to provide an extremely versatile arrival switch, meeting a wide range of industrial control applications.



Multi-Connection Design

Long term, carefree operation
"The harder it works, the longer it lasts."

Power Options include OKC Products, Inc. industry standard, internal lithium batteries for 7+ year 2-Wire applications or the option to use the legacy 3-Wire, external power hook-up to supplement battery power as needed for reliable, long-term 24/7 operation in all weather extremes.

Carefree operation and long-term reliability set the TripMate apart from other magnetic switches. Impermeable epoxy sealing and electrically isolated switch connections protect against harsh weather and lightning. Ultra-low power electronics significantly reduce failure rates and provide intrinsically safe operation. Rugged packaging is made to last and give years of continuous performance in harsh weather conditions. The TripMate's chemical-resistant, molded enclosure keeps the TripMate looking new even after years of oilfield service.

TRIPMATE™



P/N 9202-2021000

With its universal 2-wire / 3-wire hookup and integral 1/2" male conduit port, the TripMate is compatible with all electronic control systems, including PumpMate, AeroMate and TimeMate.

TripMate™ 2012 Specifications

Manufactured under U.S. Patents 6,194,793 B1 and 6,462,507 B2

Enclosure

Weight	6 ounces (0.17 kg)
Dimensions	2.6 W x 2.3 H x 1.6 D (inches) (6.6 cm x 5.8 cm x 4.0 cm)
Type	High Impact, Black Molded Thermoplastic

Power

Battery	Sealed 500mAh Lithium 7+ Years (est.100,000 hrs.)
Drain	5uA Average (30 uW)
External	3Vdc - 24Vdc @ < 60uA

Hook-Up

Connections	3-Position Terminal Block 1. SIG (Signal) 2. COM (Common) 3. PWR (Ext. Power)
Connector	#18 - 22 AWG wire Removable Screw Block 6 ft Black Molded Cable Provided with a White Signal (+) Wire Marker
Conduit	Integral 1/2" Male Port (cable seal union available)

Electrical

Output	Normally Open, Single Pole, Electrically Isolated Switch
Rating	30 Volts at 2 Amperes Less than 0.1 ohm On Resistance

Operational

Method	Utilizes Magnetic Induction to Sense Metal Object Moving Past Sensor Through Metal or Non-Metal Interfaces
Signal	Normally Open (NO) Switch. Minimum 1 second closure.
Mounting	Hold Down using Clamp, Cable Tie, or Rubber O-Ring Band.

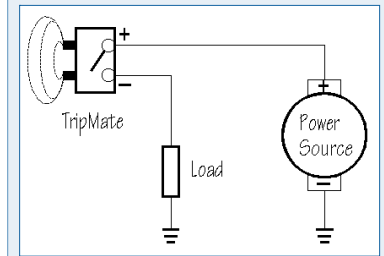
Temperature

Operation	-40°F to 150°F (-40°C to 65°C)
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Certifications

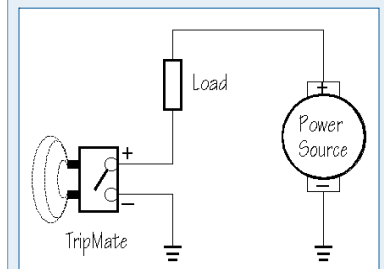
CSA	Intrinsically Safe for Use in Class 1, Division 1 and Class 1, Division 2, Group C and Group D Hazardous Locations
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High-Side Power Switch



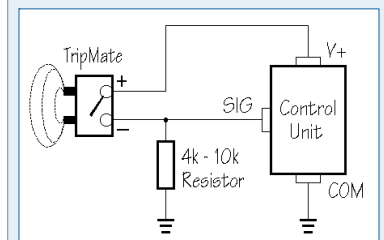
Maximum 30Vdc @ 2A

Low-Side Power Switch

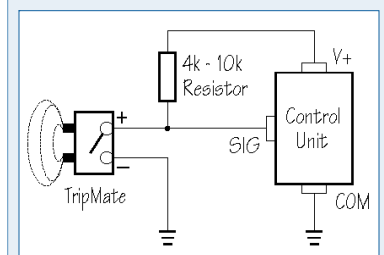


Maximum 30Vdc @ 2A

Normally Low Control



Normally High Control



 **OKC Products, Inc.**

P.O. Box 1560
Berthoud, CO 80513 USA

p 970.532.1774 f 970.532.1776

www.okcproducts.com