Dwyer. SERIES MARK | PROXIMITY® BY DWYER **POSITION INDICATORS/SWITCHES/TRANSMITTERS**





Mark 1 stainless steel (environmentally sealed for corrosive areas)



Mark 1 polyester coated aluminum (environmentally sealed for corrosive areas)



Mark 1 magnetic coupling cutaway Model 12VDOJ2



Mark 3

multi turn



Mark 4 thru-shaft cutaway Model 42RDOJ2

MARK 1 FEATURES/BENEFITS

 Ideal for corrosive environments MARK 3 FEATURES/BENEFITS

· Ideal for corrosive environments

MARK 4 FEATURES/BENEFITS

protection

applications

The Proximity[™] Series Mark Position Indicators/Switches/Transmitters are a line of position indicators with a selection of various output options. Three model styles make up the Mark series to cover almost any application. Standard models in the Mark Series have visual position indicators and are weatherproof, explosion-proof, and submersible. A large variety of outputs are available to fit specific applications. There is a choice of 1 to 6 switch outputs of 14 varieties including inductive sensors, high temperature switches, gold contact switches, hermetically sealed switches, and high current switches. Besides the switch outputs the Series offers potentiometer outputs, transmitters, and HART[®] Communication. The units are purchased for either direct drive applications, such as rotary valves, or lever drive applications, such as linear whose Adjustable used inside the direct drive applications, such as linear and best applications. valves. Adjustable visual indicator is standard on direct drive units that displays OPEN CLOSED status and degrees.

A magnetic drive that completely seals the switch compartment from the atmosphere for maximum leak protection is utilized in the Mark 1. The Mark 3 uses the same magnetic drive of the Mark 1, but it can be used for multi-turn applications with 1 to 25 revolutions, such as gate valves. A through shaft drive is incorporated in the Mark 4 making the unit a more cost effective alternative to the Mark 1 for applications that are not as demanding.

APPLICATIONS

- Rotary valve actuators and dampers
 Linear valve actuators and cylinders
- Manual valves
- Gear operators
- Positioners



Mark Series mounted to an actuator

MODEL CHART									
Model	Function	Design	Model	Function	Design				
12AD0 12AL0 14AD0 15VD0	2 SPDT 2 SPDT (lever drive) 4 SPDT 2 SPDT and 4-20 mA position		42AD0 44AD0 45VD0	2 SPDT 4 SPDT 2 SPDT and 4-20 mA position transmitter	Thru-shaft drive Thru-shaft drive Thru-shaft drive				
12AD1 14AD1 12VD0-J1 14VD0-J1	transmitter 2 SPDT 4 SPDT 2 SPDT	Magnetic coupling Magnetic coupling Magnetic coupling Magnetic coupling Magnetic coupling	42VD0-J1 44VD0-J1	2 SPDT	Thru-shaft drive Thru-shaft drive				

Stainless Mounting Kit 1/4 turn actuator

Manual 1/4 turn valves Linear control valves

Mounting kits with drive yoke (see drawing), or slotted lever arm, bracket, fasteners and other stainless steel hardware fit over 2000 popular valves and actuators. A high strength spring tempered stainless steel drive yoke/coupling is tailored to fit securely to a specific valve or actuator stem. There is no slippage or binding. No special alignment fixtures are required due to switch offset design and yoke to stem engagement that makes installation a "snap". Each kit is specially designed for a particular valve or actuator, making field mounting simple with standard tools. Please specify make and model of valve or actuator on order.

Features a magnetic coupling that isolates the switch compartment, completely sealing the unit from the surrounding atmosphere for maximum hazard and leak

Features a magnetic coupling that isolates the switch compartment, completely sealing the unit from the surrounding atmosphere for maximum hazard and leak

Multi-Turn models that can provide switch signals between 1 and 25 revolutions, and transmitter models for up to 10 revolutions without gear reduction Flexible design allows multiple switches and transmitter options

Thru-Shaft design that features a 1" bushing for long life and O-rings to seal the switch compartment for hazard, corrosion, and leak protection
EZ set cams on switch models provide simple set point adjustment
Flexible design allows multiple switches and transmitter options
A more cost effective alternative to the Mark 1 Series for less demanding applications

protection EZ set cams on switch models provide simple set point adjustment Flexible design allows multiple switches and transmitter options

Mounting kits can be used interchangeably with all models since external mounting features are identical. Rotary valves utilize direct drive couplings and a slotted lever drive is used with linear valves. Lever drives convert linear motion to rotary. Stainless steel visual indicators are standard for direct drive, automated quarter-turn valve applications.

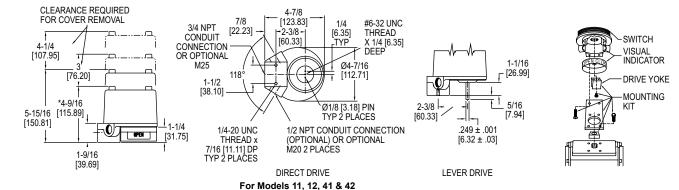
SERIES MARK | PROXIMITY® BY DWYER POSITION INDICATORS/SWITCHES/TRANSMITTERS

Dutput Type 1 1 1 1 1 A A 2 2 witches 2 2 2 A	construction 1 3 4	Mark 1, Magnetic Coupling Mark 3, Multi-Turn Mark 4, Thru-Shaft			Available Option "A" signifies available with corresponding construction styl Mark 1 3 4		
witch Type B A SPDT Snap. Rate: 15 A @ 125:20480 VAC (~). 11/B h @ 125 VAC (~). 11/A h @ 250 VAC (~). 11/2 A @ 125 VDC (~). 11/A @ 250 VDC (~). A A B C SPDT Ting. Preparation Soft (7 C/C) for 600 hours, Rated:15:1 A @ 125/250/277 VAC (~). A A D D SPDT Ting. Preparation Soft (7 C/C) for 600 hours, Rated:15:1 A @ 125/250/277 VAC (~). A A D D D D D D A A N SPDT Ting. Preparation Soft (7 C/C) for 600 hours, Rated:15:1 A @ 125/250/277 VAC (~). A A N SPDT Ting. Rated: 10 A @ 125/250 VC (~). A A A N SPDT Ting. Rated: 10 A @ 125/250 VC (~). A A A N SPDT Ting. Rated: 10 A @ 125/250 VAC (~). A A A N SPDT Ting. Rated: 10 A @ 125/250 VAC (~). A A A N'N'N SPDT Ting. Rated: 10 A @ 125/250 VAC (~). A A A SPDT Ting. Rated: 10 A @ 125/250 VAC (~). A @ 125/250 VAC (~). A A SPDT Ting. Rated: 10 A @ 125/250 VAC (~). A A <td< th=""><th>2 3 31 32 35 310 320 4 5 51 52 7 8</th><th>2 Switches 1 kΩ Potentiometer 1/2%. Available with switches, see note below.* 1 kΩ Potentiometer 1/4%. Available with switches, see note below.* 2 kΩ Potentiometer. Available with switches, see note below.* 5 kΩ Potentiometer. Available with switches, see note below.* 10 kΩ Potentiometer. Available with switches, see note below.* 20 kΩ Potentiometer. Available with switches, see note below.* Transmitter 1 kΩ Potentiometer 1/2%. 4-20 mA. Available with switches, see note below.* Transmitter 1 kΩ Potentiometer 1/4%. Available with switches, see note below.* Transmitter 2 kΩ Potentiometer. Available with switches, see note below.* AS-interface and 1 Switch. Available with Switch Types B, I, R, W.</th><th>A A A A A A A A A A A A A A A A A A A</th><th> A A A A A A A A A A A A A A A A A A A</th><th>A A A A A A A A A A A A A A A A A A A</th></td<>	2 3 31 32 35 310 320 4 5 51 52 7 8	2 Switches 1 kΩ Potentiometer 1/2%. Available with switches, see note below.* 1 kΩ Potentiometer 1/4%. Available with switches, see note below.* 2 kΩ Potentiometer. Available with switches, see note below.* 5 kΩ Potentiometer. Available with switches, see note below.* 10 kΩ Potentiometer. Available with switches, see note below.* 20 kΩ Potentiometer. Available with switches, see note below.* Transmitter 1 kΩ Potentiometer 1/2%. 4-20 mA. Available with switches, see note below.* Transmitter 1 kΩ Potentiometer 1/4%. Available with switches, see note below.* Transmitter 2 kΩ Potentiometer. Available with switches, see note below.* AS-interface and 1 Switch. Available with Switch Types B, I, R, W.	A A A A A A A A A A A A A A A A A A A	 A A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A		
ethod D Direct Drive (or Yoke) with Visual Indicator. A A L Direct Or Yoke Drive with Visual Indicator. A A nclosure 0 Atuminum, Painted Black A A nclosure 1 Auminum, Painted White Epoxy with SS trim A A 2 Atuminum, Painted Red A A A 3 2 Atuminum, Painted Red A A 4 Auminum, Painted Red A A A 6 C Color not yet specified) A A 7 thru 20 Cast 316 Stainelses Steel A A 4 Auminum, Painted (color not yet specified) A A 6 C1 Long Dwell Cam (not on Mark 3) A - 7 C2 Double Cam (not on Mark 3) A - 7 A A A A 9 Junction Package with One 1/2" NPT Female Conduit Connection and Terminal Strip. A A 1 Autorito Neakage with One 1/2" NPT Female Conduit Connection and Terminal Strip. A A -	nd Rating B C D G H I N O O R S T V	125 VDC (), 1/4 A @ 250 VDC (). Inductive Sensor. 10 to 30 VDC (). Load: 0.1 A. SPDT High Temperature Snap, 350°F (176°C) for 600 hours, Rated:15.1 A @ 125/250/277 VAC (~). DPDT Snap, Rated: 10 A @ 125/250 VAC (~). 0.3 A @ 125 VDC (), 0.15 A @ 250 VDC (). SPDT Gold Contact Snap, Rated: 1 A @ 125 VAC (~). SPDT Hermetically Sealed Snap, Rated: 1 A @ 125 VAC (~). NAMUR Inductive Sensor. 15 mA max @ 5-25 VDC (). SPDT Magnetic Blow-Out, Rated: 10 A @ 125 VAC (~)/VDC (), 1/4 hp @ 125 VAC (~)/VDC (). No Switches SPDT Hermetically Sealed Reed, Rated: 2 A @ 125 VAC (~), 2 A @ 24 VDC (). SPDT Snap, Rated: 4 A @ 125/250 VAC (~). SPDT High Temperature Snap, 250°F (121°C) Continuous, Rated: 5 A @ 125/250/480 VAC (~). SPDT High Temperature Snap, 250°F (121°C) Continuous, Rated: 5 A @ 125/250/480 VAC (~). SPDT Snap, Rated: 10 A @ 125/250 VAC (~), 1/3 hp @ 125/250 VAC (~), 1/2 A @ 125 VDC (), 1/4 A @ 250 VDC (), 4 A @ 125 VAC (~) (tungsten).	A A A A A A A A A A A A A A A A		A AAAAAAAAAAA A		
1 Aluminum, Painted Black A A A 2 Aluminum, Painted Mite Epoxy with SS trim A A 2 S Aluminum, Painted Red A A 3 Aluminum, Painted Ked A A 4 Aluminum, Painted (color not yet specified) A A 6 Cat 3 16 Stainless Steel A A 7 thru 20 Cat 1 Long Dwell Cam (not on Mark 3) A - 7 thru 20 Double Cam (not on Mark 3) A - 7 thru 20 Junction Package with None 1/2" NPT Female Conduit Connection and Terminal Strip. A A 1 Junction Package with None 1/2" NPT Female Conduit Connection and Terminal Strip. A A 2 Junction Package with None 1/2" NPT Female Conduit Connection and Terminal Strip. A A 2 Junction Package with None 1/2" NPT Female Conduit Connection and Terminal Strip. A A 3 Junction Package with None 1/2" NPT Female Conduit Connection and Terminal Strip. A A 4 Any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX2391 X, (C © 0518 ©) II 2G Ex db IIC T6 Gb A A	iving A D E L	A Direct or Yoke Drive without Visual Indicator. Direct Drive (or Yoke) with Visual Indicator. Direct or Yoke Drive with Visual Indicator, Single Window. Lever Drive (Shaft Projection) without Visual Indicator. Lever (Shaft Projection) with Visual Indicator.	A A A A	A A A	A A A A		
c1 Long Dwell Cam (not on Mark 3) A c2 Double Cam (not on Mark 3) A FKM FKM Keals A A Junction Package with Two 1/2" NPT Female Conduit Connection and Terminal Strip. A A Junction Package with Two 1/2" NPT Female Conduit Connection and Terminal Strip. A A Junction Package with Two 1/2" NPT Female Conduit Connection and Terminal Strip. A A Junction Package with Two 1/2" NPT Female Conduit Connection and Terminal Strip. A A Junction Package with Two 1/2" NPT Female Conduit Connection and Terminal Strip. A A SV1 1 Attached Solenoid Valve (Must be ordered with J2 option). A MT Metric Threaded Conduit Connection, M25 X 1.5 (M20 X 1.5 for optional J1 and J2 connections). A A B Any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX2391 X, (€ 0518 () II 2G Ex db IIC T6 Gb (-(25/40/-50°C S Tamb 5 80°C). A A B Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, (€ 0518 () II 1G Ex ia IIC T4 Ga. A - C1 S Any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, (€ 0518 () II 1G Ex ia IIC T4 Ga. - - IB <t< td=""><td>1 2 5 6</td><td>Aluminum, Painted Black Aluminum, Painted White Epoxy with SS trim Aluminum, Painted Red Aluminum, Painted (color not yet specified) Cast 316 Stainless Steel</td><td>A A A A</td><td>A A A A</td><td></td></t<>	1 2 5 6	Aluminum, Painted Black Aluminum, Painted White Epoxy with SS trim Aluminum, Painted Red Aluminum, Painted (color not yet specified) Cast 316 Stainless Steel	A A A A	A A A A			
PP Plug J1, J2 Ports A A PT Paper Tag A A	pptions C1 C2 FK J1 J2 SV SV B B B IS IS IS IE IE II II IE IE IE IE IE IP F P T	Long Dwell Cam (not on Mark 3) Double Cam (not on Mark 3) FKM Seals Junction Package with One 1/2" NPT Female Conduit Connection and Terminal Strip. 1 Attached Solenoid Valve (Must be ordered with J1 option). 2 Attached Solenoid Valves (Must be ordered with J2 option). Metric Threaded Conduit Connection, M25 X 1.5 (M20 X 1.5 for optional J1 and J2 connections). Any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX2391 X, C 0518 () II 2G Ex db IIC T6 Gb (-25/-40/-50°C ≤ Tamb ≤ 70°C and T5 for -25°C/-40°C/-50°C ≤ Tamb ≤ 80°C). Depending on output switch type selected. Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX2391 X, C 0518 () II 2G Ex db IIC T4 Gb (-40°C ≤ Tamb ≤ 80°C). Any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 1G Ex ia IIC T4 Ga. Output Type 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 1G Ex ia IIC T4 Ga. Output Type 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 1G Ex ia IIC T4 Ga. Output Type 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 1G Ex ia IIC T4 Ga. Output Type 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 1G Ex ia IIC T4 Ga. Output Type 91: IECEX DEK 11.0056X, Ex db IIC T6 Gb (-25/-40/-50°C ≤ Tamb ≤ 70°C and T5 for -25/-40/-50°C ≤ Tamb ≤ 80°C) optional wording depending on output and switch type selected. Output Type 91: IECEX DEK 11.0051X, Ex ia IIC T4 Ga. 1 Certificate NCC 13.02339X; Marking: Ex ia IIC T4 Ga 1 Certificate NCC 13.02339X; Marking: Ex ia IIC T4 Ga 1 Certificate NCC 13.02339X; Marking: Ex ia IIC T4 Ga 0 Utput Type 91 with Suffix B Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 2G Ex ab IIC T4 Gb (-40°C ≤ Tamb ≤ 80°C). Battery not included. 0 Utput Type 91 with Suffix IB Directive 2014/34/EU, KEMA 03ATEX1392 X, C 0518 () II 2G Ex ia IIC T4 Ga for -40°C ≤ Tamb ≤ 80°C. Battery not included. 0 Utput Type 91 with Suffix II ECEX DEK 11.0056X, Ex db IIC T4 Gb. Battery not included. 0 Utput Type 91 with Suffix II ECEX DEK 11.	A A A A A A A A A A A A A A A A A A				

Position Indicators/ Switches/Transmitters

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POSITION INDICATORS/SWITCHES/TRANSMITTERS



SPECIFICATIONS

Mark 1, 3, and 4 with Potentiometer Accuracy: ± 0.5% of full span. Optional ± 0.25% of full span. Temperature Limits: -40 to 176°F (-40 to 80°C).(ATEX flameproof, -B suffix and IECEX flameproof, -IE suffix, rated -40 to 145°F (-40 to 63°C) for switch types A, G, M, O, R, S, T, V, or W, -13 to 145°F (-25 to 63°C) for switch types B, D, or I.; ATEX intrinsically safe, -IS suffix and IECEx intrinsically safe, -II suffix, rated -13 to 104°F (-25 to 40°C) for switch type I, -40 to 104°F (-40 to 40°C) for switch types O, R, S, V, or W. Power Ration: 1 E Worthered

Power Rating: 1.5 Watt maximum. Output Signal: 1000 Ω standard. Optional 2000, 5000, 10000, or 20000 Ω. Zero and Span Adjustments: Span trim pot with 2000Ω adjustment. No zero adjustment

Rotational Travel: Mark 1 and 4: Minimum: 0°, Maximum: 340°. Mark 3: 0 to 10 revolutions.

Mark 1, 3, and 4 with Transmitter Accuracy: $\pm 0.5\%$ of full span. Optional $\pm 0.25\%$ of full span. Temperature Limits: -40 to 176°F (-40 to 80°C). (ATEX flameproof, -B suffix and IECEx flameproof, -IE suffix, rated -40 to 145°F (-40 to 63°C) for switch types A, G, M, O, R, S, T, V, or W, -13 to 145°F (-25 to 63°C) for switch types B, D, or I.; ATEX intrinsically safe, -IS suffix and IECEx intrinsically safe, -II suffix, rated -13 to 104°F (-25 to 40°C) for switch type I, -40 to 104°F (-40 to 40°C) for switch types O, R, S, V, or W.). Prover Benuize Requirements: 5.20 VDC

Power Requirements: 5-30 VDC.

Position Indicators/ Switches/Transmitter

Current Consumption: 50 mA. Output Signal: 4-20 mA. Zero and Span Adjustments: Trim pots for adjusting both. Mark 1 and 4: Span is adjustable from 50 to 300°. Mark 3: Span is adjustable from 1.5 to 8.5 revolutions. Conduit Connection: 3/4" female NPT standard. Optional one or two 1/2" female NPT. M25 X 1.5 and M20 X 1.5 optional.

Rotational Travel: Mark 1 and 4: Minimum: 50°, Maximum: 300°. Mark 3: Minimum: 1.5 revolutions, Maximum: 8.5 revolutions.

Mark 1 and 4 Transmitter with HART® communication

Accuracy: ± 0.5% of full span. Optional ± 0.25% of full span. Temperature Limits: -40 to 176°F (-40 to 80°C). (ATEX flameproof, -B suffix and IECEX flameproof, -IE suffix, rated -40 to 145°F (-40 to 63°C) for switch types A, G, M, O, R, S, V or W, -13 to 145°F (-25 to 63°C) for switch types B, D or 1; ATEX intrinsically safe, -IS suffix and IECEx intrinsically safe, -II suffix, rated -40 to 104°F (-40 to 40°C) for switch types O, R, S, V or W; -13 to 104°F (-25 to 40°C) for switch

type I.). Power Requirements: 8-30 VDC. Current Consumption: 21 mA.

Output Signal: 4-20 mA

HART® Receive Impedance: $Rx = 500 \text{ k}\Omega$; Cx = 2500 pF. Zero and Span Adjustments: Pushbuttons or HART® communication master for setting both. Mark 1 and 4: Span is adjustable from 0 to 330°. Mark 3: Span is adjustable from 1.5 to 8.5 revolutions. Conduit Connection: 3/4″ female NPT standard. Optional one or two 1/2″ female

NPT. M25 X 1.5 and M20 X 1.5 optional.

Rotational Travel: Mark 1 and 4: Maximum: 330°.

Mark 1 and 4 Transmitter with WirelessHART® communication

Accuracy: +0.5% of full span. Optional ±0.25% of full span. Temperature Limits: -40 to 158°F (-40 to 70°C). ATEX flameproof, -B suffix and IECEx flameproof, -IE suffix: rated -40 to 145°F (-40 to 63°C). ATEX intrinsically safe, -IS suffix and IECEx intrinsically safe, -II suffix: rated -40 to 176°F (-40 to 80°C).

Power Requirements: 8-30 VDC. Current Consumption: 50 mA max. Power Output: +10 dBm (10 mW). Operating Frequency: 2400 to 2483.5 MHz. Operating Channels: 15. Sensitivity: -85dB. Zero and Span Adjustments: Pushbuttons or WirelessHART® communication master for setting both. Span is adjustable from -160 to 160°. Conduit Connection: Two 1/2" female NPT, M20 X 1.5 optional. Rotational Travel: Mark 1 and 4: Maximum: 320°

SPECIFICATIONS Product Ratings:

Weatherproof and flameproof. NEMA 1, 2, 3, 3R, 3S, 4, 4X, 6, 7, 9, 12, 13.

UL rated: Class I, Div. 1 & 2, Groups B, C, D (Some units available for Group A, consult factory); Class II, Div. 1 & 2, Groups E, F, and G.

CSA rated: Class I, Div. 1 & 2, Groups A, B, C, D; Class II, Div. 1 & 2, Groups E, F, and G. Submersible to 15 meters (IP68); It is up to the end user to source the proper fittings to ensure a watertight seal.

ATEX Compliant

-B suffix, any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX2391 X, $C \in 0518$ C = 0.12 C = 0.11.2014

1.∠014. -B suffix, Output Type 91, with or without -LB suffix: Directive 2014/34/EU, KEMA 03ATEX2391 X, **C** 0518 (≦) II 2G Ex db ib IIC T4 Gb for -40°C ≤ Tamb ≤ 63°C. Compliant per EN 60079-0:2012 + A11:2013, EN 60079-1:2014 and EN 60079-11:2012.

-IS suffix, any Output Type except 91: Directive 2014/34/EU, KEMA 03ATEX1392 X, **C (**0518 (Ex) II 1G Ex ia IIC T4 Ga. Compliant per EN 60079-0:2012 + A11: 2013 and EN 60079-11:2012.

IIS suffix, Output Type 91, with or without -LB suffix: Directive 2014/34/EU, KEMA 03ATEX1392 X, **C** € 0518 ∰ II 2G Ex ia IIC T4 Ga. Compliant per EN 60079-0:2012+A11:2013 and EN 60079-11:2012.

IECEx Compliant

LE suffix, any Output Type except 91:IECEx DEK 11.0056X Ex db IIC T6 Gb for -25°C/-40°C/-50°C ≤ Tamb ≤ 63°C and T5 for -25°C/-40°C/-50°C ≤ Tamb ≤ 63°C

optional wording depending on output and switch type selected. Compliant per IEC 60079-0:2011 and IEC 60079-1:2014. -IE suffix, Output Type 91, with or without -LB suffix: IECEx DEK 11.0056X, Ex db ib IIC T4 Gb for -40° ≤ Tamb ≤ 63°C. Compliant per IEC 60079-0:2011, IEC 60079-11:2014 and IEC 60079-11: 2011.

-II suffix, any Output Type except 91: IECEx DEK 11.0061X Ex ia IIC T4 Ga. Compliant per IEC 60079-0:2011, IEC 60079-11:2011, and IEC 60079-26:2014. -II suffix, Output Type 91, with or without -LB suffix: DEK 11.0061X Ex ia IIC T4 Ga. Compliant per IEC 60079-0:2014, and IEC 60079-11:2011.

Electrical Connections: Screw terminal. Optional factory sealed leads that are 36"

(914.4 mm) of 16 AWG. **Conduit Connection:** Standard: one 3/4" female NPT; optional one to two 1/2" female NPT; WirelessHART® models: two 1/2" female NPT; Optional: M25 X 1.5 or M20 X 1.5 connections may be supplied in lieu of 3/4" and 1/2" female NPT for all models

Mounting Orientation: Not position sensitive. Weight: 4 to 6 lb (1.5 to 3.0 kg). Operational Life: Over 10,000,000 cycles. Maximum Altitude: 2000 meters.

Mark 1, 3 and 4 with Switch Outputs Temperature Limits: -58 to 176°F (-50 to 80°C). Switch Type C rated to 350°F (176°C) for 600 hours, Switch Type T rated to 250°F (121°C) continuous. (ATEX flameproof, -B suffix and IECEx flameproof, -IE suffix, rated -58 to 145°F (-50 to 63°C) for switch type A, G, H, T, or M, -40 to 145°F (40 to 63°C) for switch type O, R, S, V, or W, -13 to 145°F (-25 to 63°C) for switch type B, D, I, or AS Interface; ATEX intrinsically safe, -IS suffix and IECEx intrinsically safe, -II suffix, rated -13 to 104°F (-25 to 40°C) for switch type D or I, -40 to 104°F (-40 to 40°C) for switch type R, V, or W, or -58 to 104°F (-50 to 40°C) for switch type A, G, or H.). Switch Type: See page reference \bullet below. Electrical Rating: See page reference \bullet below. Set Point Adjustment: Mark 1 and 4: 5 to 360°.

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 Switch Type: See page 437 (Series Mark) eElectrical Rating: See page 437 (Series Mark)