

PE30 GENERAL ORDERING GUIDE

Build part number first by selecting **Housing Style** (code 1), **MagElec** (code 2), and **Connection** (code 3). Add **Special Codes** (code 4) to the end of the Joral part number. Refer to 'Special Part Number Information' for explanation of modifiers.

Examples: **PE30-A-1024-SEPP-M12-54** - Stainless Steel (PE30, modifier 54), M12 Connector (M12), 13 bit incremental quadrature @ 1024 PPR

PE30-A-1939-SC72-61 - Red aluminum (PE30), Extended thread (modifier 61), 72' Shielded cable (SC72)

PE30-V1-0-180-0-5-CW-C72 - Red aluminum (PE30), 72' Cable (C72), 0-5v out (V1) @ 0-180°, 0v to 5v out, clockwise direction (CW)

Code 1: Housing Style	Code 2: MagElec (Sensor Output)	Code 3: Connection	Code 4: Special Codes
PE30 PE30 red aluminum, For stainless steel housing add special code 54 to Joral P/N. Modifier Extended Thread: Special Code - 61 Extended thread on PE30 housing increases available thread length by 0.5" (12.7mm).	A - - - - - SEPP	13 bit single ended quadrature - A B Z	TRM Pluggable Terminal block INS Wire insertion terminal
	A - - - - - DIPP	13 bit differential quadrature - A B Z, A' B' Z'	M8 M8 male M12 M12 male
	A - 1939	13 bit J1939 @ 1000 positions	M12P M12 male on 18' pigtail
	B - PWM	Absolute position PWM	CXX Flying lead cable (enter XX as inches)
	A - SSI1	Absolute position SSI @ 8192 positions	SCXX Shielded cable (enter XX as inches)
	V1	5 VDC IN, 0-5 VDC OUT	CSP Cable with custom end
	V2	6-36 VDC IN, 0-5 VDC OUT	DE4 DT04 - 4 pin male Deutsch DE6 DT04 - 6 pin male Deutsch
I1	0-24 VDC IN, 4-20 mA OUT		
			51 Red Aluminum 53 Black Aluminum 54 Stainless Steel 61 Extended Thread 71 Roller 72 Spindle 90 13 bit @ 8192 counts per rotation (Typical J1939 option)
* More outputs and connection options available, contact Joral if desired configuration is not listed			

Special Part Number Information *Review below code sections for important P/N build information*

Code 1: Housing Style

- **Modifier 54** - PE30 Stainless steel housing for corrosive applications.
- **Modifier 61** - Add 61 to P/N for extended thread. Standard shell length w/o M12 1.2" (30mm), Extended length w/o M12 1.7" (43mm). Code 61 adds 0.5" (12.7mm) length to thread for more access in threaded mounting.

Code 2: MagElec

(A - - - - - SEPP) or
(A - - - - - DIPP)

- Enter Quadrature PPR in place of - - - - -
- A = 13 bit PPR
- **Available 13 bit PPR:** 0008, 0010, 0016, 0020, 0025, 0032, 0040, 0050, 0064, 0080, 0100, 0125, 0128, 0200, 0250, 0256, 0400, 0500, 1024, 2048

A - 1939

- Standard J1939 output is 1000 positions
- A = 13 bit
- **MODIFIER 90** - for 8192 positions (max resolution) add code 90 to end of PE30 P/N

V1, V2, and I1 (Analog MagElec P/N Guide)

- First select MagElec code (**V1, V2 or I1**) then Angle Range (**A1-A2**), Voltage Range (**VR1-VR2**) and Signal Direction (**Clockwise [CW] or Counter [CCW]**)
- **PART NUMBER FORMULA** (MagElec)-(A1-A2)-(VR1-VR2)-(CW or CCW)
- **EXACT V1, V2, and I1 EXAMPLES**
 PE30 - **V1 - 0-360 - 0.5-4.5 - CW - C72**
 PE30 - **V2 - 0-180 - 0-5 - CCW - DE4**
 PE30 - **I1 - 180-270 - 4-20 - CW - M12**

Code 3: Connections

- **All Outputs, All Connections** - Connector exit back exit only (sensor epoxy side) for housing style PE30
- **J1939 Output** - Addressing via varying value resistor in connection requires at least five conductors (*M12, DE6 and Cables addressing compatible*)
- **All Outputs w/ Deutsch** - DE4 and DE6 connection Deutsch connectors add \$20 to PE30 list

