

## HP38 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:** **HP38-B-0256-SEPP-M12P** - Black Delrin™ (HP38), M12 pigtail (M12P), 10 bit incremental quadrature @ 256 ppr

**HP38-B-1939-SC72** - Black Delrin™ (HP38), 72" Shielded cable, 10 bit J1939 @ 512 positions

**HP38-V1-0-360-0.5-4.5-CW-C72** - Black Delrin™ (HP38), 72" Cable (SC72), 0-5v Voltage Out (V1) @ 0-360°, 0.5-4.5v out, clockwise signal

Code 1: Housing Style	Code 2: MagElec (Sensor Output)	Code 3: Connection	Code 4: Special Codes
<b>HP38</b> HP38 material black Delrin™, connector orientation SIDE EXIT. For REAR EXIT connector on HP38 add code 33 to end of P/N.	<b>B - _____ - SEPP</b>	10 bit single ended quadrature - A B Z	<b>TRM</b> Pluggable Terminal block <b>M8</b> M8 male
	<b>B - 1939</b>	10 bit J1939 @ 512 positions	<b>M12P</b> M12 male on 18' pigtail <b>CXX</b> Flying lead cable (enter XX as inches)
	<b>B - SSI1</b>	Absolute position SSI @ 512 positions	<b>SCXX</b> Shielded cable (enter XX as inches)
	<b>B - PWM</b>	PWM absolute position	<b>DE4</b> DT04 - 4 pin male Deutsch <b>DE6</b> DT04 - 6 pin male Deutsch
	<b>V1</b>	5 VDC IN, 0-5 VDC OUT	
	<b>V2</b>	6-36 VDC IN, 0-5 VDC OUT	
			<b>31</b> Side Exit (housing wall) <b>33</b> Back Exit (epoxy side) <b>71</b> Roller <b>72</b> Spindle
* 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 33** - For BACK EXIT connector orientation on HP38 add 33 to end of Joral P/N
- **HP38** - Handles ALL back exit and CABLE ONLY side exit connections

### Code 2: MagElec

#### (B - \_\_\_\_\_ - SEPP)

- Enter Quadrature PPR in place of \_\_\_\_\_
- B = 10 bit PPR
- **Available 10 bit PPR:** 0032, 0064, 0128, 0256

#### B - 1939

- 10 bit J1939 output is 512 positions
- B = 10 bit

#### 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**  
HP38 - **V1 - 0-360 - 0.5-4.5 - CW - C72**  
HP38 - **V2 - 0-180 - 0-5 - CCW - C72**  
HP38 - **I1 - 180-270 - 4-20 - CW - C72**

### Code 3: Connections

- **All Outputs, All Connections** - Standard connection orientation SIDE EXIT. For BACK EXIT connector on HP38 add 33 to end of Joral HP38 P/N
- **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 HP38 list

