HP58 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:
- **HP58-A-0080-SEPP-SC72-31** - Black Delrin™ (HP58), Side exit (31), 72" shielded cable (SC72), 13 bit incremental quadrature @ 80 PPR
- **HP58-A-1939-M12-90** - Black Delrin™ (HP58), Back exit (standard), M12 connector (M12), J1939 @ 8192 positions (modifier 90 for 8192)
- **HP58SE-V1-0-180-0.5-4.5-CW-C72-31** - Red Aluminum (HP58SE), Side exit (31), 0-5v Out (V1) @ 0-180°, 0.5-4.5v out, clockwise signal

Code 1: Housing Style	Code 2: MagElec (Sensor Output)		Code 3: Connection		Code 4: Special Codes	
HP58 HP58 material Black Delrin™, connector orientation BACK EXIT standard. To designate SIDE EXIT connection use special code 31. (Side exit for HP58 CABLE ONLY)	**A - _ _ _ _ - SEPP**	13 bit single ended quadrature - A B Z	**TRM**	Pluggable Terminal block	**31**	Side (housing wall)
			INS	Wire insertion terminal	**32**	Front (magnet side)
	A - _ _ _ _ - DIPP	13 bit differential quadrature - A B Z, A' B' Z'	**M8**	M8 male	**33**	Back (epoxy side)
			M12	M12 male	**50**	White Delrin
	A - 1939	13 bit J1939 @ 1000 positions	**M12P**	M12 male on 18' pigtail	**51**	Red Aluminum
			CXX	Flying lead cable (enter XX as inches)	**71**	Roller
	B - PWM	Absolute position PWM			**72**	Spindle
HP58SE HP58SE made out of Red Aluminum, connector orientation BACK EXIT standard. To designate SIDE EXIT connection use special code 31.	**A - MOD1**	13 bit Modicon MODBUS @8192 positions	**SCXX**	Shielded cable (enter XX as inches)	**90**	13 bit @ 8192 counts per rotation (Typical J1939 option)
	A - SSI1	Absolute position SSI @ 8192 positions	**CSP**	Cable with custom end		
			DE4	DT04 - 4 pin male Deutsch	**91**	13 bit @ 1000 counts per rotation (Typical MODBUS option)
	V1	5 VDC IN, 0-5 VDC OUT	**DE6**	DT04 - 6 pin male Deutsch		
	V2	6-36 VDC IN, 0-5 VDC OUT				
	V3	0-24 VDC IN, 4-20 mA OUT x2 (Redundant output)				
**** More outputs and connection options available, contact Joral if desired configuration is not listed***	**I1**	0-24 VDC IN, 4-20 mA OUT				
	I2	0-24 VDC IN, 4-20 mA OUT x2 (Redundant output)				

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

Code 1: Housing Style

- **Modifier 31** - For side exit connector on HP58 and HP58SE add 31 to end of Joral P/N
- **HP58** - Handles all back exit connections and CABLE ONLY side exit connections *(M12P, CXX, SCXX, DE4 & DE6)*
- **HP58SE** - Handles ALL back and side exit connections *(including M12 leaded side exit)*

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 HP58 P/N

A - MOD1

- Standard MOD1 output is 8192 positions
- A = 13 bit
- **MODIFIER 91 -** for 1000 positions add code 90 to end of HP58 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**
  HP58 - **V1 - 0-360 - 0.5-4.5 - CW** - C72
  HP58 - **V2 - 0-180 - 0-5 - CCW** - DE4
  HP58 - **I1 - 180-270 - 4-20 - CW** - M12

Code 3: Connections

- **All Outputs, All Connections** - Connector exit standard is BACK EXIT (sensor epoxy side) for housing HP58 and HP58SE *(for SIDE EXIT use modifier 31)*
- **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 HP58 list