

PLATINUM SERIES PERFORMANCE CONTROLS

*For use on military, government, work boats & cruisers
(electric, mechanical or hybrid)*



FEATURES

- Custom laser capabilities
- Ergonomically designed knobs for long hours of comfortable operation
- In-handle single or dual trim switch available
- Adjustable detent and friction
- Billet aluminum construction makes these controls tough yet lightweight
- Corrosion resistant - two layers of protection anodized base coat with a powder coat finish
- Shorter handles - easily fits in tight spaces
- Flat base in chrome, carbon fiber or powder coat finish

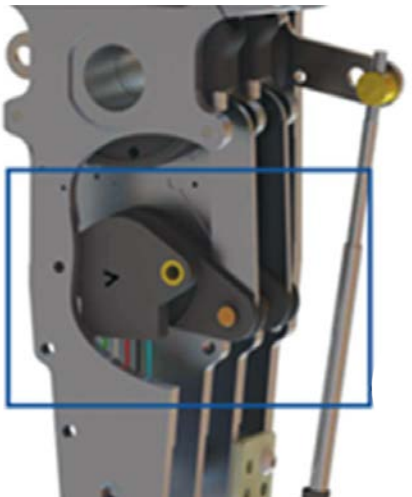
FEATURES - CONTINUED

- Applications available for throttle, shift, jet drives, or buckets
- Available in two styles: billet or standard (1 function per handle)
- Three throttle/shift configurations:
 - o Fully Mechanical
 - o Fully Electric
 - o Mechanical/Electric (Hybrid)
- Configurations include one or any combination of the below
 - o The use of mechanical 33C or 43C cables
 - o The use of 0-5 volt electronic sensors or PWM signal
 - o The use of a micro switch - for shift handles only
 - o Applications requiring the use of an idle validation switch can be accommodated.
- Can be calibrated for the below engines:

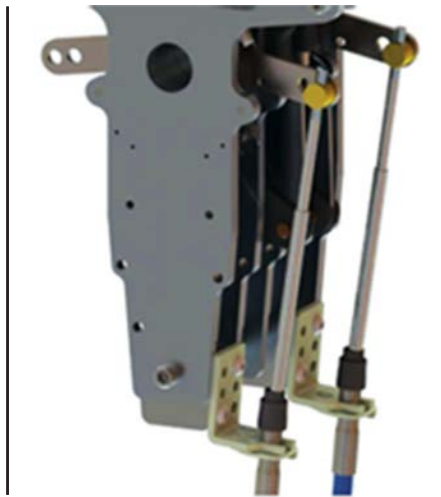
o Steyr	o Yanmar
o Cummins	o John Deere
o Iveco	o Caterpillar
o Fiat	o Bosch Controllers



- Shorter base depth:
- Mechanical units 8.125"
 - Electric units 6.5"



Electrical configurations use compact direct driven angular sensors (IP68 Waterproof sensors)



Mechanical levers use 33C or 43C series cables

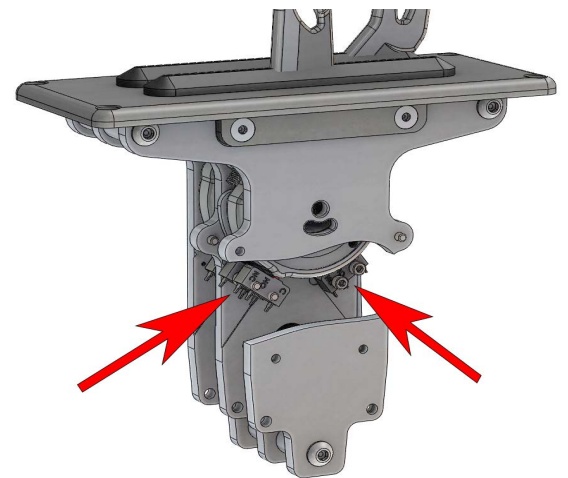


Image illustrates forward and aft switches used for electronic shifting

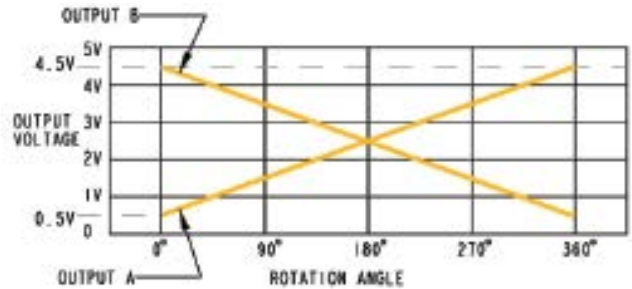
DUAL OUTPUT ANGULAR POSITION SENSOR

Non-contacting magnetic position sensor with two independent outputs Ideal for high reliability sensing applications

Features and Benefits

- Angular position sensor with high tolerance for misalignment
- Dual (redundant) outputs assure very high reliability
- Non-contact sensing up to full 360° rotation
- No mechanical interface
 - Nothing to break or wear out
 - No possibility of jamming or resistance to motion
- Sealed design meets IEC529 IP68 for immersion
- Rugged design includes EMI/ESD protection to SAE J1113 standards
- Maximum operating temperature of 125°C

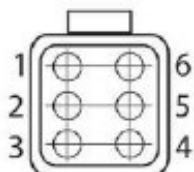
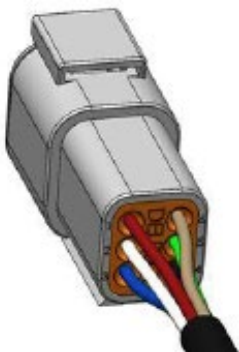
Typical Sensor Output Signal
(Based on 5V Supply)



ELECTRICAL SPECIFICATIONS

SENSING RANGE	0 TO 360 DEGREES OF ROTATION
INPUT VOLTAGE	5.0 VDC \pm 10%
OUTPUT VOLTAGE	0.5 TO 4.5 VDC (RATIOMETRIC)
OUTPUT ACCURACY (WITH SUPPLIED MAGNET) (65°- 360° ROTATION)	\pm 2.5% FULL SCALE
OUTPUT SMOOTHNESS (WITH SUPPLIED MAGNET) (65°- 360° ROTATION)	\pm 0.75% FULL SCALE FOR ANY 2% INTERVAL
OUTPUT LINEARITY (WITH SUPPLIED MAGNET) (65°- 360° ROTATION)	\pm 2.0% FULL SCALE
MAX SUPPLY VOLTAGE	20 VDC
REVERSE VOLTAGE	-10 VDC
MAXIMUM OUTPUT CURRENT RANGE	8MA
MINIMUM OUTPUT CURRENT RANGE	-8MA
RESOLUTION	ANALOG
ELECTROSTATIC DISCHARGE	SAE J1113-13; +/- 8KV
IMMUNITY TO RADIATED ELECTRONIC MAGNETIC FIELDS	SAE J1113-4; 1 MHZ TO 400 MHZ
CONDUCTED TRANSIENT EMISSIONS	SAE J1113-42; \pm 25V
OPERATING TEMPERATURE	-40 TO 125°C

DEUTSCH CONNECTOR DTM04 - 6P



Pin Number	Wire Color	Description
1	Red	PPS1 (5V)
2	White	PPS2 (5V)
3	Blue	PPS1 Signal
4	Black	PPS1 Ground
5	Green	PPS2 Ground
6	Tan	PPS2 Signal

Build your own part number:

Standard Style / electric throttle / mechanical shift / four handle / single switch / black knobs

S	T	E	M	2	2	S	B	K
Throttle style	Throttle Actuation	Shift Actuation	# of Throttle handles	# of Shift handles	Switches	Knob color		
Code:	Code:	Code:	Code:	Code:	Code:	Code:	Code:	Code:
Billet	full mechanical	MM	0	0	no switch	black	BK	
Standard	full electric	EE	1	1	single	blue	BL	
	mech throt/elec shift	ME	2	2	dual	black star	BS	
	elec throt /mech shift	EM	3	3	triple	chrome	CH	
						gun metal	GU	
						lime	L	
						mustard	MU	
						orange	O	
						platinum	PL	
						purple	PU	
						red	R	
						white	W	

Specify the following:

1. Comments:

2. Optional Features:

- Calibration, Engine Model & Year
- Flat base plate in chrome (comes as a standard feature)
- Configuration ex: S-S-T-T
- Flat base plate in a powder coat finish
- Right or Left Thumb Actuation
- Flat base plate with a carbon fiber inlay

Powder Coat Options:

BK **BL** **W** **PL** **PSS** **MU** **R** **O** **L** **PU**

Carbon Fiber Base Options (Black and silver carbon fiber):

CF SE

Laser etching available

Cummins Harness Part #

CMDPCSH20 Cummins harness 20 feet
 CMDPCSH25 Cummins harness 25 feet
 CMDPCSH30 Cummins harness 30 feet