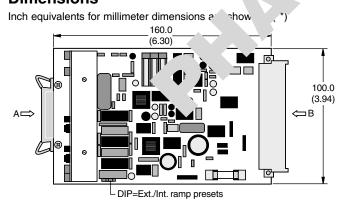
General Description

Series ET154 electronic module is used to control TDA and TEA proportional throttle valves configured with the 'M' solenoid option. For valves configured with the 'L' coil option, refer to driver card ET10*. The module accepts a 0 to 10 volt command signal, and produces a proportionally linear output current used to drive the valve's proportional solenoid. Note that the linearity of the valve itself determines the linearity of the system. Refer to the specific valve data for actual linearity performance. Two ramp adjustments provide control of actuator acceleration and deceleration.

Features

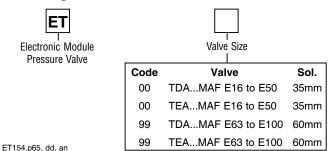
- Processing and amplification of the externally supplied positive set-values into output signals for the control solenoid.
- Can be combined with EZ150 or external programmable control.
- MIN/MAX limiters for matching the working range to the full set value range.
- Pulsed low-loss and very fast amplifier power stage with supporting constant current control.
- Dither generator with applied frequency to improve static characteristics.
- Diagnosis by means of measuring sockets as well as LEDs for indicating working conditions.
- DIP switch from internal ramp generation to external ramp setting.

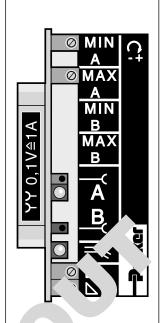
Dimensions

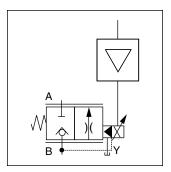


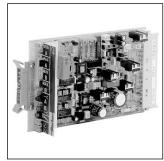
For new applications: ET154: Refer to PCD00A-400

Ordering Information



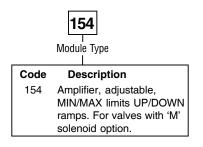






Specifications

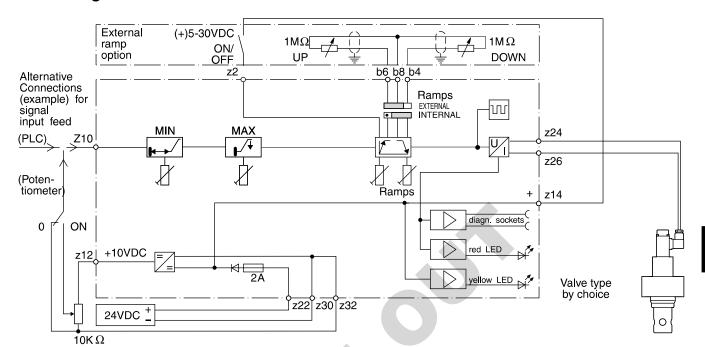
-	
Connection	48 Pole Male Connector, DIN 41612F
Power Supply	Regulated: 18-26V Unregulated: 22-38V
Current Required	3.5A max.
Command Signal	0 to +10 VDC
Max. Solenoid Output Current	2.6A at 10V set value
Reference Output	+10 VDC 10 mA
Ambient Temp. Range	0°C to +70°C (+32°F to +158°F), Standard Range
Ramps	0-5 seconds adjustable
Shielded Cable Connection	Supply connections + valve: 1.5 sq. mm (16 AWG) Command Signals: 0.5 sq. mm (20 AWG)
Fuse	1.6A medium lag, DIN 41571/5x20 mm



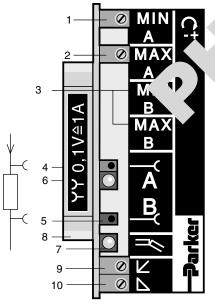
Design
Series
NOTE:
Not required
when ordering.



Block Diagram







4 Red socket for current diagnostic5 Black socket for

matching the

aperture

aperture

smallest throttle

MAX-limiter for

matching the

largest throttle

(B-information

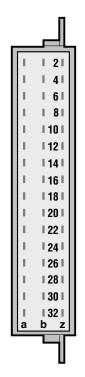
are not used here)

current diagnostic

- 6 Red LED (A) for: - function indicator
- control solenoid (B not used)
- (D not useu)
- 7 Yellow LED for:- correct voltage supply
- 8 Green grip strip with reference information for measured values
- 9 UP ramp potentiometer
- 10 DOWN ramp potentiometer

Only potential-free measuring equipment to be used

Connector (Elevation B)



- z2 Ramp disable
- z10 Input (+) 0...10V
- z12 Output (+) 10V reference
- z14 Output 24 VDC ramp disable
- z22 Input 24 VDC supply
- z24 Output control solenoid
- z26 Output control solenoid
- z30 Reference potential 0V set-value
- z32 Reference potential 0V supply

Notes:

- Turn off the electrical power to this board whenever the hydraulic supply to the valve is not on.
- Always turn off the power to this board before removing it from the card holder.

-Parker

ET154.p65, dd, an