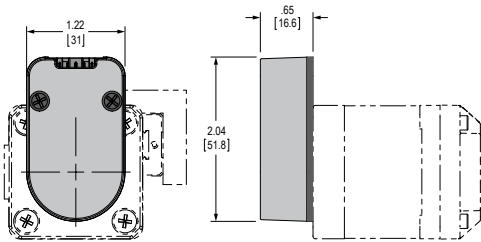




MICRO PRECISION LINEAR ACTUATORS

Modular Miniature Linear Actuators

OPTICAL ROTARY ENCODERS

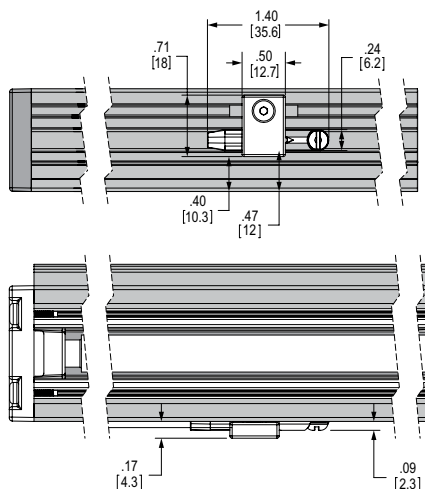


- Designed to provide digital feedback information
- Molded polycarbonate enclosure
- 5-pin or 10-pin finger latching connector (sold separately)
- 32 to 5000 cycles per revolution (CPR)
- 128 to 20000 pulses per revolution (PPR)
- 2 channel quadrature TTL squarewave outputs
- Optional index (3rd channel)
- -25 to +100C operating temperature
- Mounting compatibility with HEDS-5500

For differential versions: the internal differential line driver (26C31) can source and sink 20mA at TTL levels. The recommended receiver is industry standard 26C32. Maximum noise immunity is achieved when the differential receiver is terminated with a 150 resistor in series with a .0047 F capacitor placed across each differential pair. The capacitor simply conserves power; otherwise power consumption would increase by approximately 20mA per pair, or 60mA for 3 pairs. The mating connectors are available from US Digital with several cable options and lengths.

MAGNETIC SENSORS

- Non-contact sensors determine position of carriage
- Maintains integrity of linear actuator
- Sensors operate without intruding upon the actuator, keeping the system completely intact



Operating Voltage	5-28 VDC
Voltage Drop	1.0 V
Current Rating	0.2 Amps Max.
Switching Power	4.8 watts Max.
Switching Speed	4µs operate / 4µs release
Short Circuit Protection	No
Reverse Polarity Protection	Yes
Overload Protection	No
Leakage Current	< 0.01 mA
Sensing Technology	GMR
Off Delay Time	150-200 ms
Function Display	PNP switching status yellow / NPN switching status red
Switching Frequency	< 1000 Hz
Magnetic Sensitivity	2.5 millitesla (25 gauss)
Housing Materials	Ultem
Operating Temperature	-4°F to 176°F (-20°C to 80°C)
Protection Rating	NEMA 6 / IP 67
Agency Approvals	CE, RoHS, REACH