PART NUMBER	STROKE	RETRACT	REV	ECN	
DAP12-10A5-04LS	4. 00	12. 75	В	12739	

SPECIFICATIONS

I. ELECTRICAL

- 1) INPUT VOLTAGE: 10-16 VDC.
- 2) AMPERAGE: 28 AMPS MAXIMUM AT 500 LB LOAD.
- 3) DVERLOAD PROTECTION: THERMAL BREAKER INCORPORATED
- IN MOTOR. EXTERNAL FUSE IS RECOMMENDED FOR ADDITIONAL PROTECTION.

4) FEEDBACK: 10K DHM POTENTIOMETER.

CHANGE IN RESISTANCE DF 385 DHMS/INCH OF SCREW TRAVEL, POTENTIOMETER IS PRESET FOR MINIMUM RESISTANCE AT FULL MECHANICAL RETRACT. (200 DHMS MAX.) POTENTIONETER SPECIFICATIONS: TOTAL RESISTANCE 10K DHMS; ±25% LINEARITY; ±0.015% NDISE; POWER RATING; 2 WATTS AT 70°C, 0 WATTS AT 125°C; DIELECTRIC STRENGTH 1000 VAC MINIMUM; INSULATION RESISTANCE 1000M DHMS MINIMUM; RESISTANCE SHIFT 5% MAX. ACCURACY OF POSITIONAL CONTROL IS ±0,0025 UNDER UNIDIRECTIONAL LOADS. DUE TO ACTUATOR END PLAY, UNDER BIDIRECTIONAL LOADS, THE ACCURACY OF POSITIONAL CONTROL IS ±0.010. THESE VALUES DO NOT INCLUDE MOUNTING POINTS.

- 5) LEAD WIRES: 14 AWG STRANDED COPPER WITH 80° GPT INSULATION PER SAR J1128.
- 6) MOTOR CONNECTOR: PACKARD ELECTRIC 56 SERIES FEMALE BODY #2984883 WITH (2) MALE BLADE TERMINALS #2962987.
- 7) POWER SWITCH: DOUBLE POLE-DOUBLE THROW TYPE WITH CENTER OFF AND MOMENTARY CONTACTS (NOT PROVIDED).
 TO EXTEND ACTUATOR, CONNECT RED LEAD TO POSITIVE AND
 YELLOW LEAD TO NEGATIVE. TO RETRACT ACTUATOR, CONNECT YELLOW LEAD TO POSITIVE AND RED LEAD TO NEGATIVE.

II. MECHANICAL

- 1) DYNAMIC LOAD: 500 LBS MAXIMUM.
- 2) STATIC LOAD: TENSION LOAD 1000 LBS MAXIMUM. COMPRESSIVE LOAD 1000 LBS MAXIMUM.
- 3) ACTUATOR END PLAY: O. 080 MAXIMUM (DOES NOT INCLUDE
- 4) DVERLDAD PROTECTION: BALL DETENT CLUTCH WITH LOAD RATING BETWEEN 600 AND 1000 LBS.
- 5) MOUNTING: PIN TO PIN MOUNTING. MOUNTING MUST PROVIDE RESTRAINING TORQUE OF 100 IN-LBS MINIMUM.
- ACTUATOR CAN BE MOUNTED VERTICALLY OR HORIZONTALLY. 6) RESTRAINING TORQUE: UNIT HAS ANTI-ROTATION FEATURE.
- 7) EXTENSION TUBE ROTATION: EXTENSION TUBE SHOULD NOT BE ROTATED. ROTATION WILL CHANGE POTENTIOMETER SETTING AND MAY REQUIRE RESETTING.

III. **DPERATING CONDITIONS**:

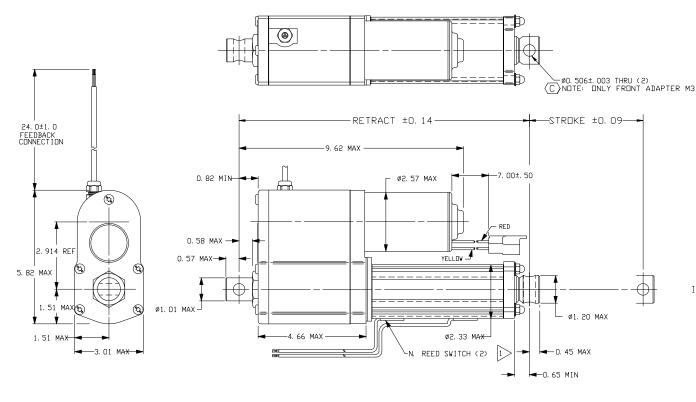
- 1) TEMPERATURE: OPERATING AMBIENT -15°F TO 150°F (-26°C TD 66°C)
- 2) ENVIRONMENT: ACTUATOR IS WEATHER PROTECTED FOR DUTDOOR USE.
- 3) <u>DUTY CYCLE</u>: DUTY CYCLE IS TIME-TEMPERATURE RELATED AND NEEDS TO BE EVALUATED UNDER ACTUAL OPERATING CONDITION, NORMAL ON TIME IS 25% AT 500 LB LOAD AND 77°F (25°C) AMBIENT TEMPERATURE, ACTUAL MAXIMUM ON TIME IS FURTHER DEFINED AS THE TIME TO COMPLETE ONE FULL EXTENSION AND RETRACTION.

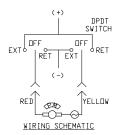
IV. PACKAGING PROCEDURES

1> POSITION SENSOR: (2) N/C SENSORS (840-9008-314) WITH (4) #4-40 SCREWS (INCLUDED) MOUNTED IN TRACK FOR CUSTOMER POSITIONING. (SNUG SCREWS) AFTER POSITIONING B SENSOR(S) TORQUE SCREWS TO 5 IN-LBS.

2. <u>PACK</u>: PACK IN A CONTAINER AND MARK WITH PART NUMBER AND DESCRIPTION PER MP-852.

THOMSON

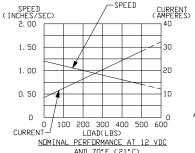




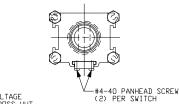
FRT ADP WAS STD MT KAG 1/31/05

ADD TO SENSOR NOTE

8151 B







LOW LEVEL DC SIGNAL VOLTAGE RESISTANCE MEASURED ACROSS WHT AND RED LEADS WILL INCREASE AS ACTUATOR EXTENDS. RESISTANCE MEASURED ACROSS WHT AND BLK LEADS WILL DECREASE AS ACTUATOR EXTENDS

AND 70°F (21°C)

DE 7/26/99

CUSTOMER NO. FINISH BLACK PAINT HEAT TREAT MATERIAL

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IT IS FURNISHED TO YOU FOR CONFIDENTIAL INFORMATION
PURPPISES DALLY AND IS NOT TO BE DISCLOSED, BEFROUGHED
BY USED FOR MANNIFACTURING PURPPISES WITHOUT THE
EXPRESS WITHTEN PERNISSION OF DANAHER MOTION. TOLERANCES: UNLESS OTHERWISE SPECIFIED .XXXX ±0.0001 .XX ±0.0
,XXX ±0.005 .X ±.01
FRACTIDNAL ±1/64 ANGULAR ±1/2* (±0°30
MACHINED SURFACES 125√
DEBURR SHAPP HOLES AND EDGES
GEOMETRIC TOLERANCES PER ANSI Y14.5
DD NOT SCALE DRAVING

DAF THIRD AND E DE PROJECTI

REFERENCES DAP12-10A5-04LS

DAPXX10A5XX DAP36-10A5XXLS									
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DJECTION	78	7897		PAGE 1 of					

1300 NORTH STATE - MARENGO.IL - 60152 TITLE ACTUATOR DUTLINE DRAWING NUMBER DAP12-10A5-XXLS

D DANAHTER