



This controller series was developed primarily for light and heavy railroad and mass transit signal applications. In addition, with the multiple switching actions and contact functions, these controllers can be applied in a wide range of other industries. Some of these are: Hoist control, Aircraft ground support equipment, Process/Flow control panels and specialized industrial systems.

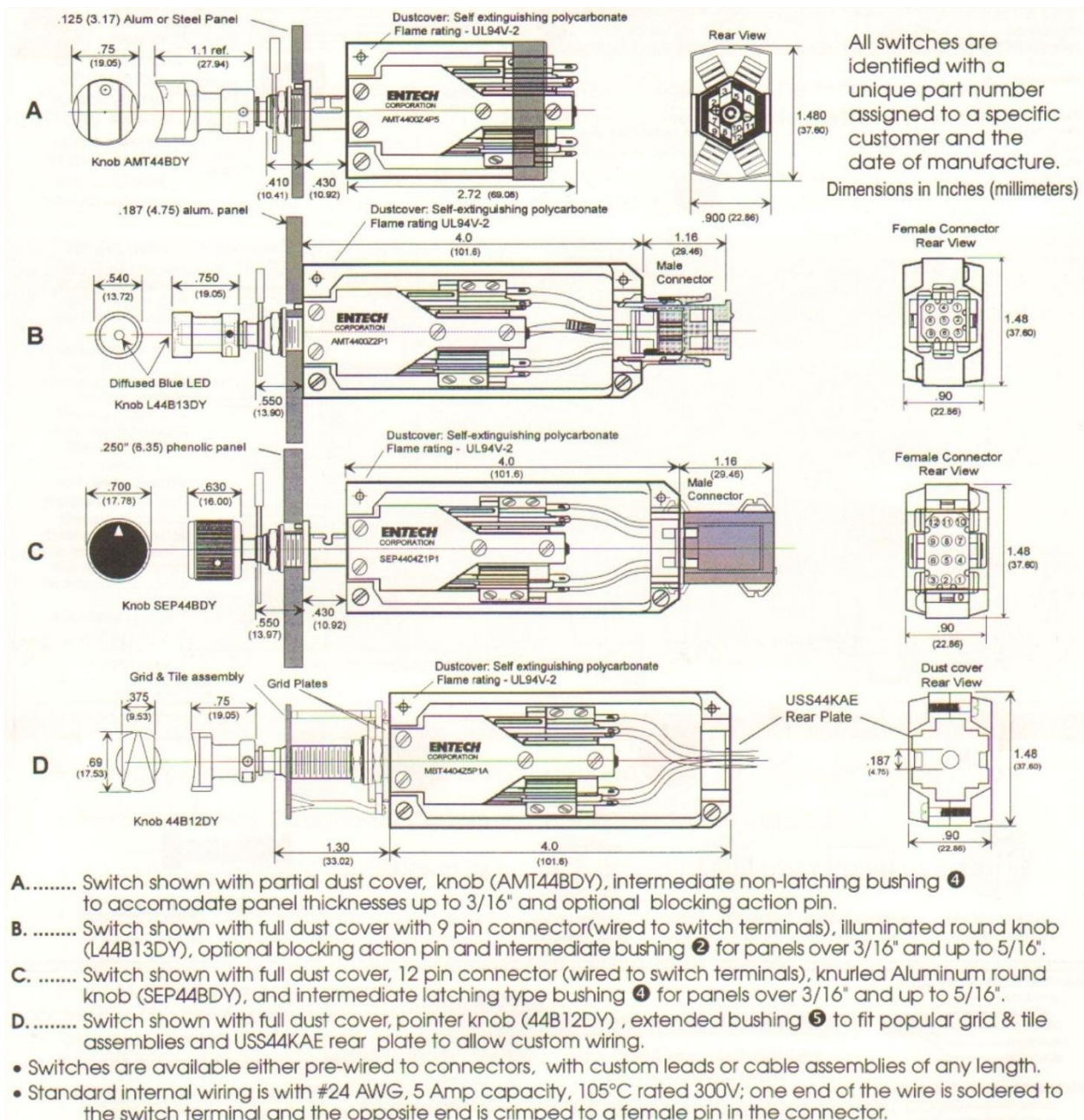
Some of the main features of the Series 4400 switch include:

- »Extremely rugged construction insures extended life under demanding conditions
- »Pre-wired quick disconnect couplers insure rapid switch installation
- »Up to 4 independent functions in one switch permit high density panel circuits
- »Illuminated LED switches with Blue, Red, Green, Amber, and White indicators
- »High impact polycarbonate dust covers for long term reliability
- »Solid nickel plated brass bushings, shafts and frame assemblies
- »Optional open back hard wiring construction for tight locations
- »Multiple circuits, up to 2 SPST, on each function with the standard dust cover
- »Mix latching and momentary functions on the same "controller"
- »Optional blocking action flag pins and safety blocking caps are available
- »Adaptable to a variety of panel thicknesses or Grid Mosaic Tile structures
- »Custom low smoke, low halogen content cable assemblies to mate with switch connectors available in any length and termination

Electrical Characteristics	
Current and Voltage Ratings	3 Amps at 125 VAC (resistive) 3 Amps at 28 VDC Optional - (Gold contacts) dry circuit up to 1 Amp at 125 VAC
Contact Resistance	Standard - 11 micro-ohm initial
Dielectric Strength	500 VAC for 1 minute
LED Internal Resistors	Available for 12, 24 and 28 Volt systems, contact the factory for values
Mechanical Specifications	
Life	100,000 cycles minimum at rated load (500,000 cycles mechanical)
Contacts	Standard - 3 Amp Palladium disk .050" diameter x .020" thick coined head Optional - 1 Amp Western Electric #1 Gold disk with same dimensions
Temperature	-30°C to +105°C -22°F to +221°F
Operating Force	Push-Pull - 50 lbs static Roational - Maximum torque 2 ft/lbs
Material and Finishes	
Knobs	Solid brass with bright nickel plating - (Satin finish nickel, Aluminum or custom plastic knobs available by special order - see Hardware page
Frame	Brass with bright nickel plate
Cam	Type 6/6 Nylon Thermoplastic
Main Shaft	Brass with bright nickel plate
Dust Cover	Polycarbonate thermoplastic - flame rating UL94V-2
Insulators	Between blades - Nema XXX Paper Reinforced Phenolic Resin Laminate (meets MIL-P3115 type PBE-P) Over screws - Nylon or Teflon
Plug Couplers	Type 6/6 Nylon - 9 or 12 pin female mounted in dust cover (mating male 9 or 12 pin couple and required male pins
Spring Blades	Spring grade nickel silver with brass or plastic lifters available with solder lugs or .110 tab Faston lugs (special order)
Internal Springs & Pins	Stainless steel, pins are type 302 and 420 Stainless steel
Screws	Stack - Steel with zinc plating or chromate dip Internal - Stainless steel
<i>Information accurate as of January 24th, 2013</i>	



Dimensions





Hardware Options/Assemblies

Dimensions specified in inches (millimeters)

All LED illuminated knobs available in colors: Blue, Red, Green, Amber, White

44B13DY
54 (13.72) x .75 (19.05)

LW44B13DY
425 (10.79) x .75 (19.05)

L44B13DY
54 (13.72) x .75 (19.05)

44B13DYR (R denotes RED)
450 (11.43) x .54 (13.72) x .75 (19.05)

44B12DY
.69 (17.53) x .375 (9.53) x .75 (19.05)

L44B12DY
.69 (17.53) x .375 (9.53) x .75 (19.05)

44B15DY
.75 (19.05) x .840 (21.34)

44B10DY
500 (12.70) x .781 (19.84)

AMT44BDY
75 (19.05) x 1.10 (27.94)

AMTL44BDY
75 (19.05) x 1.10 (27.94)

55B19D1
734 (18.64) x .531 (13.49)

44CF12 - 12 pin Female Connector

44CM12 - 12 pin Male Connector

44CF9 - 9 pin Female Connector

44CM9 - 9 pin Male Connector

44CB4 - 4 place Commoning Bar

Blocking Pins

- AMT44LA-1, RED flag, no lettering
- AMT44LA-2, BLUE with white "BLOCK"
- AMT44LA-3, RED with white "RUSTY"
- AMT44LA-4, RED with white "BLOCK"

Safety Cap Kit:
Includes RED cap, special nut, wire & lead seal and the necessary washers.

Caps are available in two versions, one to keep button activated, part no. AMT44SL and one to prevent accidental activation, part no. ENT44SL

Wire & Lead Seal
Part no. ENT44WSL is used to prevent accidental or unauthorized activation of the switch function with drilled bushing/shaft.

The seal works with any knob style.

ENT44WSL Wire & Lead Seal

SEP44BDY - Aluminum
700 (17.78) x 630 (16.00)

44B11D2
500 (12.70) x .781 (19.84) x 1.063 (27.00)

44PXT - Pin Extraction Tool

44CMP - Male Pin

44CFP - Female Pin

Standard 5 conductor cable

- WHITE (2)
- RED (3)
- GREEN (6)
- ORANGE (9)
- BLACK (12)

Standard 6 conductor cable

- WHITE (1)
- BLACK (2)
- YELLOW (3)
- GREEN (6)
- BLUE (9)
- RED (12)

ENT4401-Cable, Low Smoke, Low halogen content, rated 300V

44CG -Grommet for Strain Relief

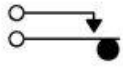
44CA -Strain Relief Housing

44CS -Fastening screw and nut

Standard Assembly is 15 ft. (4.57 m) long, available with 5 or 6 conductors of 20 or 22 AWG color coded wire with pin locations as shown on left. Any length or termination can be specified by the customer. Male connectors can be supplied with or without internal pin commoning bars.



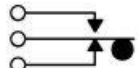
Contact Forms Available



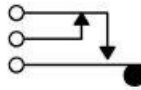
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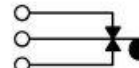
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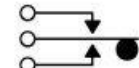
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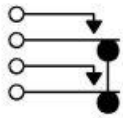
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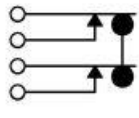
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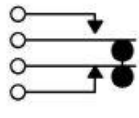
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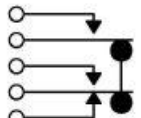
A/A



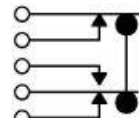
B/B



B/A



C/A



C/B