

**Trailer Electrical Interface
Model UTC 2412-7H**



OR **MS 75021-1**
Input (24V)
SAE 560  **7 Wire**
Input (12V) **Output (12V)**

- Design Features**
- Wide Range Input Voltage
 - High Efficiency Design
 - Hi Ingress Rating, IP 676
 - Low Voltage Cutout
 - High Voltage Cutout
 - Electronically Current Limited
 - Thermally Protected
 - Low No Load Power Consumption
 - All Aluminum Anodized Housing
 - Corrosion Resistant Housing
 - 6 Point Mounting



**Input
SAE560**



**Input
MS 75021-1**

Input/Output Function Table for UTC 2412-7H								
Function	Color	(24 Volts) INPUT #1		(12 Volts) OUTPUT - 7 Wire (4/1.2) (ft/m)		(12 Volts) INPUT #2		
		MS 75021-1 (NATO)		Wire Color Function		SAE 560 Function		
		Pin #		Wire Color	Function	Color (Pin #)	Function	
Ground	White	D	→	White	Ground	←	White 1	Ground
Normal Side Marker Lights Normal Tail Lights	Black	E	→	Black	Clearance, ID, Lights	←	Black 2	Clearance, ID, Lights
Normal Stop Lights	Red	M	→	Brown	Tail, Marker, License Lights	←	Brown 6	License Lights
Right Turn Signal	Green	J	→	Red	Normal Stop Lights	←	Red 4	Normal Stop Lights
Constant Power	Blue	K	→	Green	Right Turn Signal	←	Green 5	Right Turn Signal
Left Turn Sig.	Yellow	B	→	Blue	Constant Power	←	Blue 7	Constant Power
NOT USED	X	A, C, F, H, N	→	Yellow	Left Turn Sig.	←	Yellow 3	Left Turn Sig.

INPUT VOLTAGE RANGE	21 - 30 VDC (input #1) 10.5 - 17 VDC (input #2)
INPUT CURRENT	10A max. per circuit (input #1) 20A max. per circuit (input #2)
OUTPUT VOLTAGE	13.6 +, - 0.3 V per circuit
OUTPUT CURRENT	15A per line (BRN, BLK, RED, BLUE) 10A per line (YEL, GRN)
OUTPUT REGULATION	0.2V over entire input voltage and load current range

OPERATING TEMPERATURE	-40C to +60C
STORAGE TEMPERATURE	-60C to +125C
OVERLOAD PROTECTION	Electronic
EFFICIENCY	92% Typical
CONSTRUCTION	BLACK ANODIZED ALUMINUM
WEIGHT	14 lbs./ 6.5 kg. total
CORROSION RESISTANT	Salt Spray Tested per ASTM B 117

NOTE: Specifications are subject to change without notice.

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