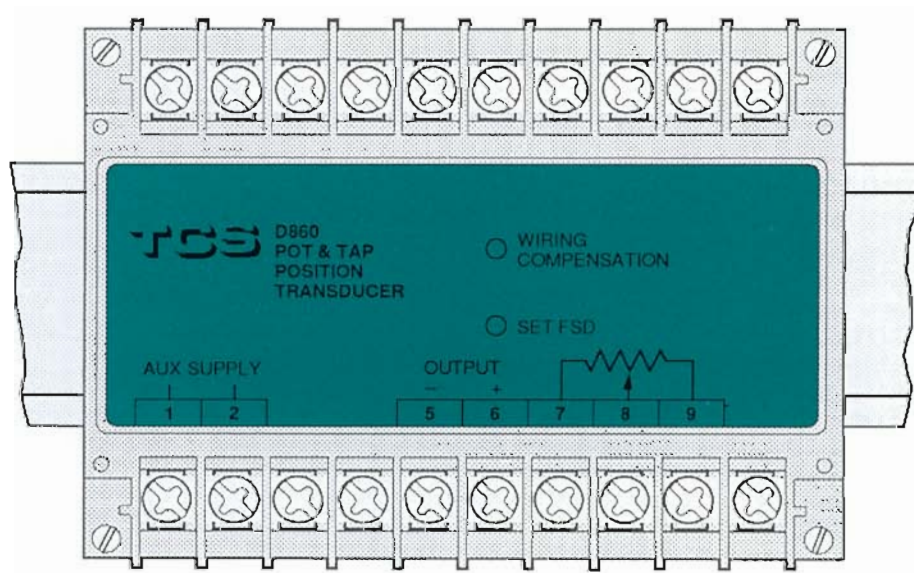




**EUROTHERM
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•D860

potentiometer & tap
position transducer



product
specification

Introduction

The D860 Potentiometer and Tap Position Transducer is designed to accurately convert the wiper position of a potentiometer or slidewire into a proportional current or voltage output. The design allows for long input lead lengths. The variation in

resistance associated with this can be calibrated out using a multiturn potentiometer to adjust the output to zero for minimum input position. Another multiturn potentiometer is located at the front of the unit to allow span adjustments to be made.

The transducer may use any value of potentiometer between 470 ohm and 1M ohm and, owing to its current output capability, it can transmit the resultant signal over long distances.

Isolation between auxiliary supply and input/output circuits is 2kV to BS 5458:1977.

Specification

INPUTS
POTENTIOMETRIC: 470 to 1M ohm
TAP POSITION: 15 or more 30 ohm taps
 2 or more 400 ohm taps

LINE RESISTANCE COMPENSATION:
 up to 8% of total resistance

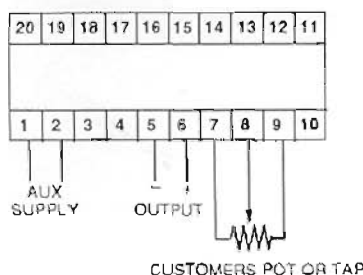
BURDEN: 1.8VA

OUTPUTS:
 0-1mA
 0-5mA
 0-10mA
 0-20mA
 4-20mA
 0-10V

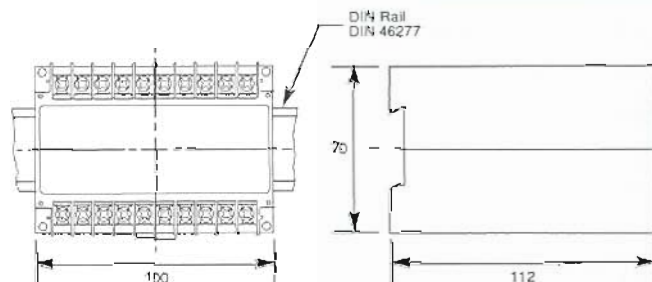
DRIVE CAPABILITY:
 Current outputs 10V
 Voltage outputs 20mA

ACCURACY: Class 1.0%
TEMPERATURE RANGE: -10 to +60°C
TEMPERATURE DRIFT: 0.02%/°C (calc)
AUXILIARY SUPPLY: 110, 240, 415V
SUPPLY TOLERANCE: ±20%
HOUSING: 100mm DIN
WEIGHT: 300gm
ISOLATION: 2kV to BS 5458:1977

Connection & Installation — Housing Details



WARNING:
 It is recommended that the transducer is housed in an enclosure (e.g. Control Panel) that does NOT allow unauthorised access as high voltages can be present on the terminals.



Dimensions in mm

Ordering Information

Description		Order Code
Potentiometer & Tap Position Transducer		D860
Input Type:	(a) Potentiometer	POT
	(b) Tap position	TAP
Input Range:	470R to 1M (specify value e.g. 500R)	500R
Auxiliary Supply		AUX
Range:	(a) 110V	110V
	(b) 240V	240V
	(c) 415V	415V
Output Type		OP
Output Range & Units:	(a) 0-1mA into 10K	0-1mA
	(b) 0-5mA into 2K	0-5mA
	(c) 0-10mA into 1K	0-10mA
	(d) 0-20mA into 500R	0-20mA
	(e) 4-20mA into 500R	4-20mA
	(f) 0-10V into 2K minimum	0-10V
Labelling:	(a) Blank	—
	(b) Tagging	T

Example: D860/POT/500R/AUX/415V/OP/0-10V/T

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Part Number HA 079979 U001



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