

## Wirewound rotary potentiometers

Series ABW 2

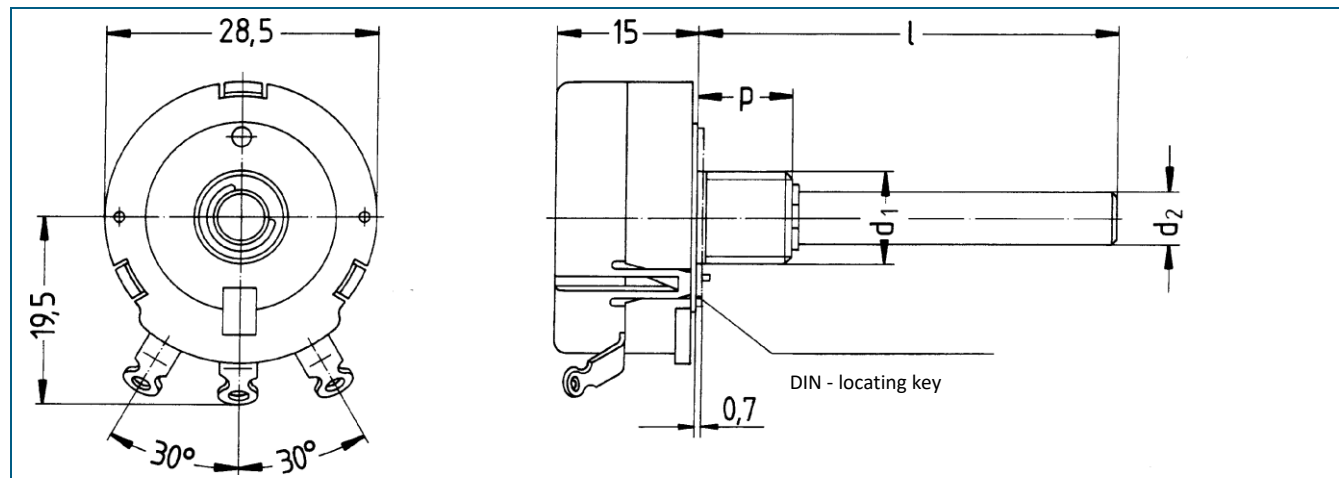
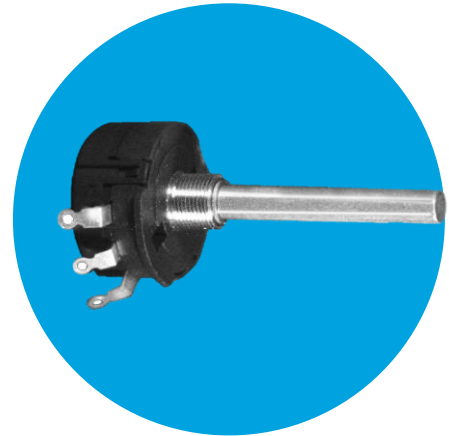
Type ABW 2 / N

Ordering code no.: 31 143 .....

Basic design: encased, nominal width 28.5 mm, solder tag terminals

Standard version with nut

Special accessories: washer or locating key



### Technical data

Rated resistance range	5 $\Omega$ - 22 k $\Omega$	Temperature range	-40 °C to +90 °C
Resistance tolerance	$\pm 10\%$ (< 10 $\Omega$ $\pm 20\%$ ) on request $\pm 5\%$ , $\pm 2\%$	Temperature coefficient	See table
Law (resistance taper)	lin (lg on request)	Insulation resistance	1 G $\Omega$
Independent linearity	$\pm 2\%$ (on request $\pm 1\%$ )	Electrical travel	270° $\pm 5^\circ$
Rated dissipation	2 W / 40 °C	Mechanical travel	300° $\pm 5^\circ$
Limiting element voltage	300 V	Operating torque	0.7 - 2.5 Ncm
Isolation voltage	1 kV ~	Endstop torque	100 Ncm
Durability	10 000 cycles		

### Spindles

- Metal
- End of spindle according to customer specification (length, flat)

l (mm)	p (mm)	d <sub>2</sub> (mm)	d <sub>1</sub>
standard 50	8	6	M10 x 0,75

### Temperature coefficient and resolution

R <sub>N</sub>	10 $\Omega$	22 $\Omega$	47 $\Omega$	100 $\Omega$	220 $\Omega$	470 $\Omega$	1 k $\Omega$	2,2 k $\Omega$	4,7 k $\Omega$	10 k $\Omega$	22 k $\Omega$
TC-value ppm / °C	+ 400	+ 400	+ 400	+ 400	+ 40 - 80	+ 40 - 80	+ 40 - 80	+ 40 - 80	+ 40 - 80	+ 140	+ 140
Resolution %	1	0,68	0,59	0,41	0,35	0,29	0,3	0,2	0,12	0,17	0,12

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