



01718E00

### Potentiometer for Panel Mounting Series 8455

- Explosion protection to
  - CENELEC
  - IEC
- For use in Zone 1 and Zone 2
- Resistance ranges from 100 Ω up to 4,2 MΩ
- Power 2 W
- With 6 m of connecting lead or terminals

#### Selection table

Version	Resistance values	with flexible lead, 6 m length	with terminals	Weight kg
		Ordering code	Ordering code	
Potentiometer	100 Ω	8455/2-100Ohm-. -6	8455/4-100Ohm- .	0,600
	220 Ω	8455/2-220Ohm-. -6	8455/4-220Ohm- .	0,600
	470 Ω	8455/2-470Ohm-. -6	8455/4-470Ohm- .	0,600
	1 kΩ	8455/2-1kOhm-. -6	8455/4-1kOhm- .	0,600
	2,2 kΩ	8455/2-2,2kOhm-. -6	8455/4-2,2kOhm- .	0,600
	4,7 kΩ	8455/2-4,7kOhm-. -6	8455/4-4,7kOhm- .	0,600
	10 kΩ	8455/2-10kOhm-. -6	8455/4-10kOhm- .	0,600
	22 kΩ	8455/2-22kOhm-. -6	8455/4-22kOhm- .	0,600
	47 kΩ	8455/2-47kOhm-. -6	8455/4-47kOhm- .	0,600
	100 kΩ	8455/2-100kOhm-. -6	8455/4-100kOhm- .	0,600
	220 kΩ	8455/2-220kOhm-. -6	8455/4-220kOhm- .	0,600
	470 kΩ	8455/2-470kOhm-. -6	8455/4-470kOhm- .	0,600
	1 MΩ	8455/2-1MOhm-. -6	8455/4-1MOhm- .	0,600
	4,7 MΩ	8455/2-4,7MOhm-. -6	8455/4-4,7MOhm- .	0,600
	<b>Add. to ordering code</b>			
Actuator with scale*:	0 - 6	8455/2-... Ohm-0/6-6	8455/4-... Ohm-0/6	
	0 - 10	8455/2-... Ohm-0/10-6	8455/4-... Ohm-0/10	
	0 - 100	8455/2-... Ohm-0/100-6	8455/4-... Ohm-0/100	
	*other scales available			

# Zones 1 & 2

**Technical Data**

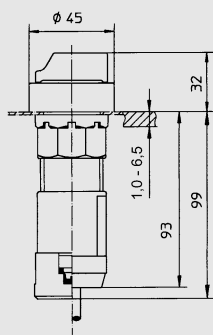
Explosion protection		
Gas explosion protection	with connecting lead with terminals	II 2 G EEx md IIC T6 II 2 G EEx mde IIC T6
Dust explosion protection	with connecting lead	II 2 D IP 65 T80 °C
Certificates		
Gas explosion protection	with connecting lead with terminals	PTB 02 ATEX 2156 X PTB 02 ATEX 2157 U
Dust explosion protection	with connecting lead	PTB 02 ATEX 2156 X
Enclosure material	Polyamide	
Rated operational voltage $U_e$	400 V	
Resistance values	100 $\Omega$ ... 4,7 M $\Omega$	
Characteristic	linear	
Resistance tolerance	$\pm 20$ %	
Rated power	2 W	
Material of resistor	Carbon composition	
Schematic		
Adjustment scale	270 °	
Torque	0,7 Ncm ... 2 Ncm	
Impact resistance	$\geq 100$ Ncm	
Degree of protection	IP 66 / IP 20 (with terminals)	
Ambient temperature	- 20 °C ... + 40 °C	
Connection	3 x 0,75 mm <sup>2</sup> (H05V-F) with 6 m length Flexible lead $\varnothing$ 6,4 mm ... 8 mm cable diameter Terminals 1,5 mm <sup>2</sup> flexible	

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Note The switching capacity of the line side fuse of the potentiometer must be equal or larger than the maximum short circuit current (max.  $3xI_B$  nach IEC 60127-2-1).

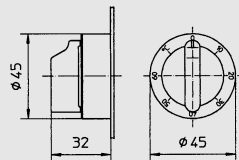


**Dimension drawings** (all dimensions in mm) - subject to alterations



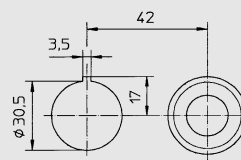
04430E00

**8455 Potentiometer**



04431E00

**Actuator**



04488E00

**Cut-out for aligning several devices  
 $\varnothing$  38 mm in a panel**

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.