



Potentiometer for Panel Mounting Series 8455

- Explosion protection according to
 - CENELEC
 - IEC
- Versions
 - with connection lead for use in Zone 1, 2 and 21, 22
 - with connection terminals for use in Zone 1 and 2
- Resistance range: 100 Ω ... 4.2 MΩ
- Power 2 W

01718E00

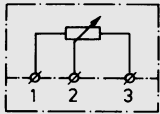
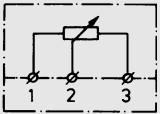
Selection Table

Version	Resistance values	with connection lead, 6 m Order number	with terminals Order number	Weight kg
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
Order Number Supplement				
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	
	* Further scales on request			

Zones 1 & 2, 21 & 22

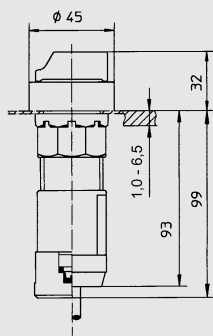


Technical Data

Version	8455/2 with 6 m connecting cable	8455/4 with terminals
Explosion protection		
Gas explosion protection	Ⓜ II 2 G Ex d mb IIC T6 (Ta = - 20 ... + 40 °C) Ⓜ II 2 G Ex d mb IIC T5 (Ta = - 20 ... + 55 °C)	Ⓜ II 2 G Ex de mb IIC T6 (Ta = - 20 ... + 40 °C) Ⓜ II 2 G Ex de mb IIC T5 (Ta = - 20 ... + 55 °C)
Dust explosion protection	Ⓜ II 2 D Ex tD A21 IP65 T80 °C (Ta = - 20 ... + 40 °C) Ⓜ II 2 D Ex tD A21 IP65 T95 °C (Ta = - 20 ... + 55 °C)	--
Certificates	PTB 02 ATEX 2156 X	PTB 02 ATEX 2157 U
Other certificates	IECEX, Belarus (Promatomnadzor)	IECEX, Belarus (Promatomnadzor)
Ambient temperature	see explosion protection data	see explosion protection data
Rated operational voltage	400 V	400 V
Lead length	3 m, 6 m, further on request	--
Scale	0 - 6, 0 - 10, 0 - 100, further on request	0 - 6, 0 - 10, 0 - 100, further on request
Resistance values	100 Ω ... 4,7 MΩ	100 Ω ... 4,7 MΩ
Characteristics	linear	linear
Resistance tolerance	± 20 %	± 20 %
Rated operational power	2 W	2 W
Resistor material	Carbon film	Carbon film
Circuit diagram		
Enclosure material	Polyamide	Polyamide
Rotary knob		
Rotation range	270°	270°
Torque	0.7 ... 2 Ncm	0.7 ... 2 Ncm
Stop strength	≥ 100 Ncm	≥ 100 Ncm
Degree of protection	IP66	IP20
Connection type	Connection lead similar to HO5VV-F, 3 x 0.75 mm ²	Terminals 1.5 mm ² finely-stranded

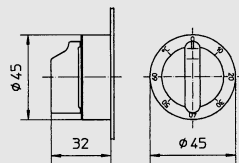
Note Each potentiometer needs a back-up fuse according to its rated current as short circuit protection (max. 3xI_B according to IEC/EN 60127-2-1).

Dimensional drawings (all dimensions in mm) - subject to alterations



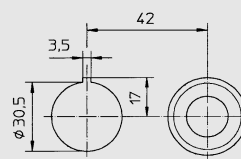
8455 Potentiometer

04430E00



Actuator

04431E00



Cut-out for aligning several devices, diameter 38 mm, in a panel

04488E00

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.