

Potentiometers for Panel Mounting

Series 8455



- > For panel mounting
- > Versions with
 - connection lead
 - connection terminals
- > Resistance range from 100 Ω ... 4.2 M Ω
- > Power 2 W

E4



10029E00

The analogue user interface of the potentiometers Series 8455 allow simple adjustment of the nominal value. The devices are available with a connection lead or with connection terminals.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
8455/2: For use in		x	x		x	x
8455/4: For use in		x	x			

WebCode 8455A

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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 k Ω	8455/2-1kOhm- . -6	8455/4-1kOhm- .	0.600
	2.2 k Ω	8455/2-2,2kOhm- . -6	8455/4-2,2kOhm- .	0.600
	4.7 k Ω	8455/2-4,7kOhm- . -6	8455/4-4,7kOhm- .	0.600
	10 k Ω	8455/2-10kOhm- . -6	8455/4-10kOhm- .	0.600
	22 k Ω	8455/2-22kOhm- . -6	8455/4-22kOhm- .	0.600
	47 k Ω	8455/2-47kOhm- . -6	8455/4-47kOhm- .	0.600
	100 k Ω	8455/2-100kOhm- . -6	8455/4-100kOhm- .	0.600
	220 k Ω	8455/2-220kOhm- . -6	8455/4-220kOhm- .	0.600
	470 k Ω	8455/2-470kOhm- . -6	8455/4-470kOhm- .	0.600
	1 M Ω	8455/2-1MOhm- . -6	8455/4-1MOhm- .	0.600
	4.7 M Ω	8455/2-4,7MOhm- . -6	8455/4-4,7MOhm- .	0.600

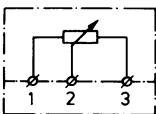
Order Number Supplement

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		
Note	further cable lengths on request		

Explosion Protection

Version	8455/2 with 6 m connecting cable	8455/4 with terminals
Global (IECEX)		
Gas and dust	IECEX PTB 07.0002 X Ex dm IIC T6 (Ta = - 20 ... + 40 °C) Ex dm IIC T5 (Ta = - 20 ... + 55 °C) Ex tD A21 IP65 T95°C (Ta = - 20 ... + 55 °C) Ex tD A21 IP65 T80°C (Ta = - 20 ... + 40 °C)	IECEX PTB 07.0001 U Ex dem IIC T6 (Ta = - 20 ... + 40 °C) Ex dem IIC T5 (Ta = - 20 ... + 55 °C) --
Europe (ATEX)		
Gas and dust	PTB 02 ATEX 2156 X ⊕ 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 D Ex tD A21 IP65 T80°C (Ta = - 20 ... + 40 °C) ⊕ II 2 D Ex tD A21 IP65 T95°C (Ta = - 20 ... + 55 °C)	PTB 02 ATEX 2157 U ⊕ II 2 G Ex de mb IIC T6 (Ta = - 20 ... + 40 °C) ⊕ II 2 G Ex de mb IIC T5 (Ta = - 20 ... + 55 °C) --
Certifications and certificates		
Certificates	IECEX, ATEX, Belarus (operating authorisation)	

Technical Data

Electrical data	
Rated operational voltage	400 V
Rated operational power	2 W
Characteristics	linear
Resistance tolerance	± 20 %
Resistor material	Carbon film
Resistance values	100 Ω ... 4.7 M Ω
Circuit diagram	

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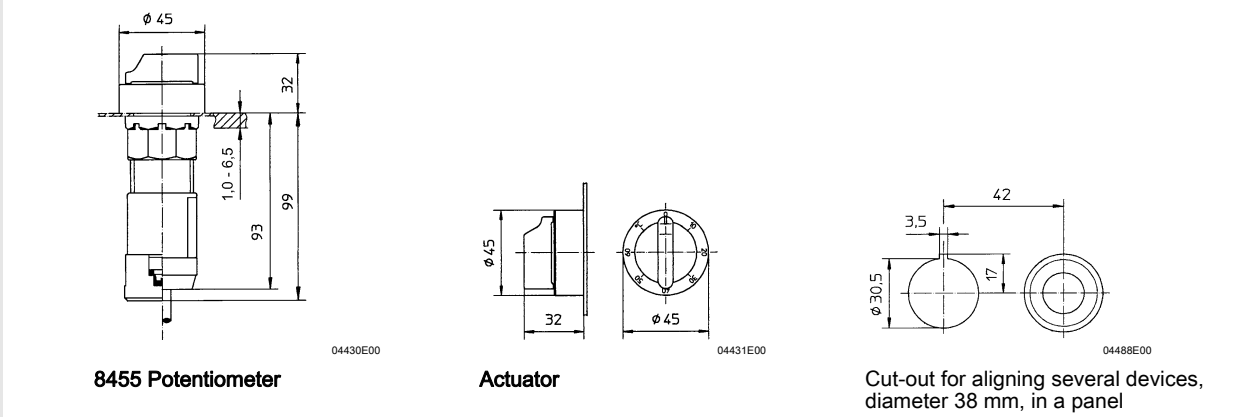
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Technical Data		
Ambient conditions		
Ambient temperature	see explosion protection data	
Mechanical data		
Version	8455/2 with 6 m connecting cable	8455/4 with terminals
Degree of protection	IP66	IP20
Enclosure material	Polyamide	Polyamide
Cable length	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
Rotary knob		
Rotation range	270°	270°
Torque	0.7 ... 2 Ncm	0.7 ... 2 Ncm
Stop strength	≥ 100 Ncm	≥ 100 Ncm
Mounting / Installation		
Version	8455/2 with 6 m connecting cable	8455/4 with terminals
Connection type	Connection lead similar to HO5VV-F, 3 x 0.75 mm²	Terminals 1.5 mm² 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



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