



Technical data

Ex-Control stations Type 411 81   Type 411 82   Type 411 83		
Marking to 94/9/EC	Ⓔ II 2 G Ex ed ib m IIC T6 Ⓔ II 2 D Ex tD A21 IP66 T80 °C	
EC-Type Examination Certificate	PTB 00 ATEX 3117	
IECEX Certificate of conformity	IECEX BKI 04.0003	
Marking acc. to IECEx	Ex e II T6, Ex e ib IIC T6, Ex ed IIC T6 or Ex ed ib IIC T6	
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option)	
Rated voltage	690 V AC	
Rated current	16 A	
Rated making-/rated breaking capacity accd. EN 60947-5-1	Ex41	Ex23
	AC-15: U <sub>e</sub> 250 V / I <sub>e</sub> 6 A	AC-15: U <sub>e</sub> 230 V / I <sub>e</sub> 6 A
	U <sub>e</sub> 500 V / I <sub>e</sub> 4 A	U <sub>e</sub> 500 V / I <sub>e</sub> 4 A
	DC-13: U <sub>e</sub> 24 V / I <sub>e</sub> 6 A	DC-13: U <sub>e</sub> 24 V / I <sub>e</sub> 2 A
	U <sub>e</sub> 220 V / I <sub>e</sub> 1 A	U <sub>e</sub> 230 V / I <sub>e</sub> 0,5 A
Connecting terminals	2 x 2,5 mm <sup>2</sup>	
Insulation class	I	
Degree of protection accd. EN 60529	IP66 (standard)	
Cable glands/Gland plates/Enclosure drilling	1 x M25 Ex-e cable gland for cables from Ø 8 - 17 mm or 1 x M20 thread	
Enclosure material	Polyamide	
Enclosure colour	Black	

Type 411 81	
Dimensions (L x W x H)	85 x 85 x 77,5 mm
Weight (empty)	0,25 kg

Type 411 82	
Dimensions (L x W x H)	125 x 85 x 77,5 mm
Weight (empty)	0,35 kg

Type 411 83	
Dimensions (L x W x H)	165 x 85 x 77,5 mm
Weight (empty)	0,45 kg

Type 411 82 with measuring instrument AM 72		
Movement	Moving iron	Moving coil
Marking to 94/9/EC	Ⓔ II G Ex e II	Ⓔ II G Ex ib IIC
Accuracy	Class 2,5	Class 1,5
Overload range	10-fold -25 sec.	10-fold -5 sec.
	25-fold - 4 sec.	
	50-fold - 1 sec.	
Measuring range	n / 1A	0 - 20 mA
	0 - 25 A direct	4 - 20 mA
Inductance Li	-	≤ 0,1 mH
Capacitance Ci	-	≤ 0,1 nF
Open circuit voltage Ui	-	30 V
Short circuit current Ii	-	150 mA
Connecting terminals	2 x 1,5 - 4 mm <sup>2</sup>	
Weight	0,70 kg	

<sup>1)</sup> Base enclosure can be rotated afterwards (entry from top or down)  
Other versions available on request

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