



D4403

**EEx d Enclosures
Flameproof Encapsulation
in Light Metal
Series 8214**

- Explosion protection to
 - CENELEC
 - IEC
- Can be used in Zone 1 and Zone 2
- Aluminium enclosures
- Various enclosure lengths and diameters
 - 8214/12.:** Ø 140 mm
length 197 ... 477 mm
 - 8214/13.:** Ø 240 mm
length 303 ... 573 mm
- Front plate versions:
 - Square:
 - totally enclosed, with spindle, inspection window, and inspection window with spindle bushings
 - Round:
 - totally enclosed, inspection window, bearing-supported shafts

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Series 8214 flameproof enclosures are designed for panel mounting.

They are available with different front plate options for all normal applications, e.g. with inspection window for indicating instruments, with spindles for potentiometers or keypads, with bearing-supported shafts for incremental shaft encoders or motors.

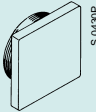
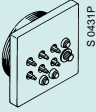
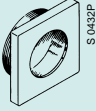

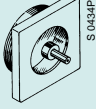
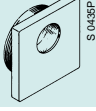
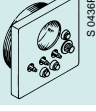
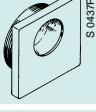

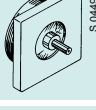
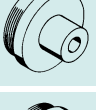
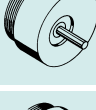

Zone 1 and Zone 2

Selection table

Type



8214/12
EEx d enclosure
for flush mounting,
pipe diameter 140 mm


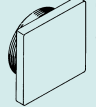






Frontplate – available types	Length of enclosure [mm]	Ordering code	Weight [kg]
 S 0430P Square front plate, plain	197 257 327 477	8214/121 – 1 – 701 8214/122 – 1 – 701 8214/123 – 1 – 701 8214/124 – 1 – 701	4,5 5,0 6,0 7,5
 S 0431P Square front plate with spindles	197 257 327 477	8214/121 – 1 – 711 8214/122 – 1 – 711 8214/123 – 1 – 711 8214/124 – 1 – 711	4,5 5,0 6,0 7,5
 S 0432P Front plate with inspection window Ø 95 mm	197 257 327 477	8214/121 – 1 – 101 8214/122 – 1 – 101 8214/123 – 1 – 101 8214/124 – 1 – 101	4,5 5,0 6,0 7,5
 S 0433P Front plate with inspection window Ø 95 mm and central spindle	197 257 327 477	8214/121 – 1 – 111 8214/122 – 1 – 111 8214/123 – 1 – 111 8214/124 – 1 – 111	4,5 5,0 6,0 7,5
 S 0434P Front plate with inspection window Ø 95 mm and central double spindle	197 257	8214/121 – 1 – 121 8214/122 – 1 – 121	4,5 5,0
 S 0435P Front plate with inspection window Ø 52 mm	197 257 327 477	8214/121 – 1 – 401 8214/122 – 1 – 401 8214/123 – 1 – 401 8214/124 – 1 – 401	4,5 5,0 6,0 7,5
 S 0436P Front plate with inspection window Ø 52 mm and spindles	197 257 327 477	8214/121 – 1 – 411 8214/122 – 1 – 411 8214/123 – 1 – 411 8214/124 – 1 – 411	4,5 5,0 6,0 7,5
 S 0437P Front plate with inspection window Ø 74 mm	197 257 327 477	8214/121 – 1 – 501 8214/122 – 1 – 501 8214/123 – 1 – 501 8214/124 – 1 – 501	4,5 5,0 6,0 7,5
 S 0438P Front plate with inspection window Ø 74 mm and spindles	197 257 327 477	8214/121 – 1 – 511 8214/122 – 1 – 511 8214/123 – 1 – 511 8214/124 – 1 – 511	4,5 5,0 6,0 7,5
 S 0439P Front plate with inspection window Ø 74 mm and central double spindle	197 257	8214/121 – 1 – 521 8214/122 – 1 – 521	4,5 5,0
 S 0450P Round front plate with inspection window Ø 29/30 mm for tube connection	197 257	8214/121 – 1 – 601 8214/122 – 1 – 601	4,5 5,0
 S 0451P Closed round flange with single bearing supported shaft	197 257	8214/121 – 1 – 241 8214/122 – 1 – 241	4,5 5,0
 S 0451P Closed round flange with double bearing supported shaft	197 257 327 477	8214/121 – 1 – 231 8214/122 – 1 – 231 8214/123 – 1 – 231 8214/124 – 1 – 231	4,5 5,0 6,0 7,5

Continuation →

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EEx d Enclosures Flameproof Encapsulation in Light Metal Series 8214

Selection table (Continuation)

Type	Frontplate – available types	Length of enclosure [mm]	Ordering code	Weight [kg]
 <p>8214/13 EEx d enclosure for flush mounting, pipe diameter 240 mm</p>	 S 0430P Square front plate, plain	303 403 473 573	8214/131 – 1 – 701 8214/132 – 1 – 701 8214/133 – 1 – 701 8214/134 – 1 – 701	13,7 16,9 18,4 21,6
	 S 0431P Square front plate with spindles	303 403 473 573	8214/131 – 1 – 711 8214/132 – 1 – 711 8214/133 – 1 – 711 8214/134 – 1 – 711	13,7 16,9 18,4 21,6
	 S 0432P Front plate with inspection window Ø 150 mm	303 403 473 573	8214/131 – 1 – 301 8214/132 – 1 – 301 8214/133 – 1 – 301 8214/134 – 1 – 301	13,7 16,9 18,4 21,6
	 S 0433P Front plate with inspection window Ø 150 mm and central spindle	303 403 473 573	8214/131 – 1 – 311 8214/132 – 1 – 311 8214/133 – 1 – 311 8214/134 – 1 – 311	13,7 16,9 18,4 21,6
	 S 0435P Front plate with inspection window Ø 74 mm	303 403 473 573	8214/131 – 1 – 501 8214/132 – 1 – 501 8214/133 – 1 – 501 8214/134 – 1 – 501	13,7 16,9 18,4 21,6
	 S 0436P Front plate with inspection window Ø 74 mm and spindles	303 403 473 573	8214/131 – 1 – 511 8214/132 – 1 – 511 8214/133 – 1 – 511 8214/134 – 1 – 511	13,7 16,9 18,4 21,6
	 S 0451P Closed round flange with double bearing supported shaft	303 403 473 573	8214/131 – 1 – 231 8214/132 – 1 – 231 8214/133 – 1 – 231 8214/134 – 1 – 231	15,4 18,8 24,0 27,2

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Technical data

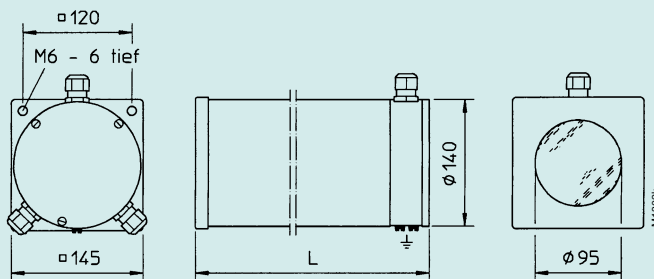
Enclosure type	8214/12. (Ø 140 mm)	8214/13. (Ø 240 mm)
Explosion protection	EEx de II T5 ... T6 depending on max. power dissipation of components fitted	
Test certificate	PTB Nr. Ex-88.B. 1066 U	
Empty enclosure	PTB Nr. Ex-88.B. 1067	
Enclosure with components	Other certificates: FTZU (Czech Republic), SEV (Switzerland), TÜV Vienna (Austria), BKI (Hungary)	
Enclosure	Aluminium	
Material	Borosilicate glass or quartz glass	
Inspection window	Primer with bonding coat, light grey stove enamel textured finish, RAL 7032	
Surface finish		
Length	197 mm ... 477 mm	303 mm ... 573 mm
Diameter	140 mm	240 mm
Special fixing	M 4 Allen screws	M 5 Allen screws
Mounting	Panel mounting	
Square flange	Flange mounting	
Round flange		
Rated working voltage U_e	max. 660 V	
Rated working current I_e	max. 32 A	

Continuation →

Technical data (Continuation)

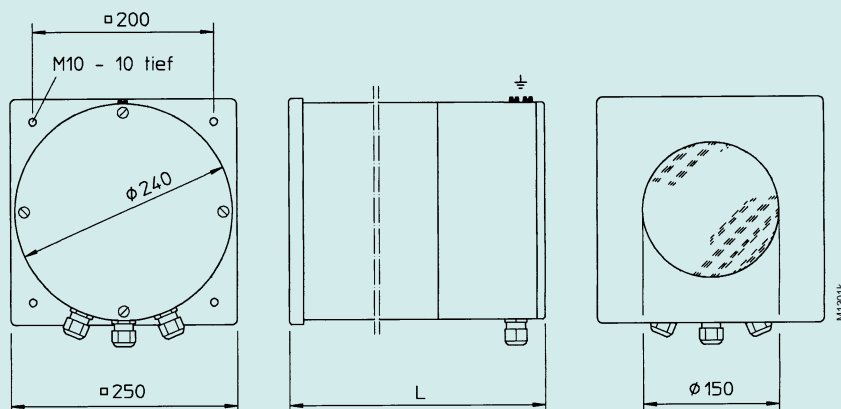
Enclosure type	8214/12. (Ø 140 mm)		8214/13. (Ø 240 mm)			
max. power dissipation	Type	max. power dissipation for		Type	max. power dissipation for	
		T5	T6		T5	T6
	8214/121	51 W	34 W	8214/131	93 W/170 W*	63 W/110 W*
	8214/122	67 W	45 W	8214/132	132 W/205 W*	89 W/135 W*
	8214/123	88 W	60 W	8214/133	148 W/230 W*	100 W/150 W*
8214/124	114 W	79 W	8214/134	160 W/260 W*	108 W/170 W*	
* for version without inspection window						
Barrier bushings (number)	Type 8171/20-ZL: 22 x 10 A, 380 V or Type 8171/02-AA: 14 x 30 A, 660 V			Type 8171/20-ZL: 68 x 10 A, 380 V or Type 8171/02-AA: 52 x 30 A, 660 V		
Connection	directly to bushings 8171/20-ZL: 1 x 1,5 mm ² 8171/02-AA: 1 x 2,5 mm ²			directly to bushings 8171/20-ZL: 1 x 1,5 mm ² 8171/02-AA: 1 x 2,5 mm ²		
Barrier bushing	Standard Special			Standard Special		
	3 x M 20 x 1,5 cable glands max. 5 x M 25 x 1,5 cable glands			3 x M 20 x 1,5 cable glands max. 7 x M 25 x 1,5 cable glands		
Degree of protection	IP 65 (IP 54 with shaft fitted)					

Dimensions, all dimensions in mm – subject to alteration



Type	L
8214/121-...1	197
8214/122-...1	257
8214/123-...1	327
8214/124-...1	477

EEx d enclosure, 8214/12.



Type	L
8214/131-...1	302
8214/132-...1	402
8214/133-...1	472
8214/134-...1	572

EEx d enclosure, 8214/13.