

ANEXOS 2

Rittal – The System.

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► **Catálogo General 33**
Edición 2011/2012

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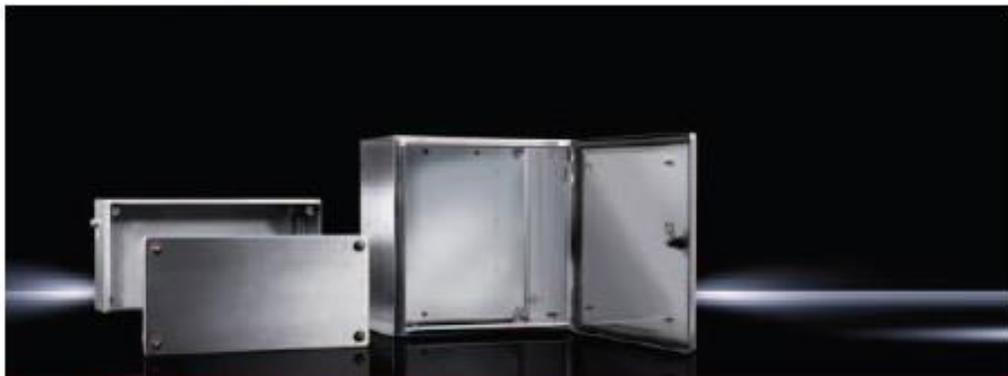
Rittal. Power and Vision!

CHALLENGE POWER DISTRIBUTION CLASSIC CONTROL IT INFRASTRUCTURE EFFICIENCY & SERVICE

FRIEDHELM LOH GROUP



Ex enclosures



System accessories Page 637

Application range:

- Zone 1 and 2 or 21 and 22 to 94/9EC
- Ambient temperature range: -30°C to +80°C
- Protection type to IEC 60 079
- Equipment protection thanks to increased safety, equipment protection thanks to enclosure

Material:

- Enclosure: Stainless steel 1.4301 (AISI 304)
- Cover or door: Stainless steel 1.4301 (AISI 304), all-round foamed-in silicone seal
- Mounting plate: Sheet steel

Surface finish:

- Enclosure: Brushed, grain 240
- Mounting plate: Zinc-plated

Protection category:

IP 66 to IEC 60 529

Supply includes:

- Enclosure
- Cover or door
- Mounting plate (only for enclosures with door)

Certificates:

- Enclosure with cover:
 - PTB 03 ATEX 1013U
 - IEC Ex PTB 09 0003U

Enclosure with door:

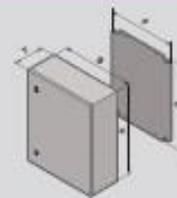
- PTB 02 ATEX 1062U
- IEC Ex PTB 09 0005U

Approvals:

- ATEX
- IEC

Detailed drawings:

Available on the Internet.



Stainless steel, with screw fastened cover

Width (W) mm	Packs of	150	200	300	350	500	600	800	1000	Page
Height (H) mm		150	200	150	200	300	300	200	200	
Depth (D) mm		80	80	80	80	120	120	120	120	
Model No. KGL	1	3021.000	3303.000	3302.000	3304.000	3305.000	3306.000	3306.000	3306.000	
Weight (kg)		1.3	1.8	1.8	1.8	2.4	2.9	3.6	3.6	
Accessories										
Mounting plates		1561.700	1562.700	1561.700	1562.700	1567.700	1567.700	1564.700	1564.700	631
Wall mounting bracket ¹⁾	4	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	1594.000	627
Support rails TS 35/7.5	60	2314.000	2315.000	2316.000	2316.000	2316.000	2316.000	2317.000	2317.000	635
Earth straps										see page 639

Stainless steel, with hinged door

Width (W) mm	Packs of	200	300	380	380	380	600	600	700	800	Page
Height (H) mm		300	380	300	380	620	600	700	700	600	
Depth (D) mm		155	210	155	210	210	210	300	300	300	
Mounting plate width (F) mm		162	224	224	224	224	249	249	274	279	
Mounting plate height (G) mm		275	275	275	275	275	275	275	275	275	
Model No. KGL	1	2401.600	2409.600	2402.600	2409.600	2404.600	2406.600	2406.600	2407.600	2408.600	
Cam lock with double-ol insert	1	1	1	1	1	2	2	2	2	2	
Weight (kg)		3.8	7.7	7.4	9.7	13.2	15.6	22.3	30.5	36.3	
Accessories											
Wall mounting bracket ¹⁾	4	2432.000	2432.000	2432.000	2432.000	2432.000	2432.000	2432.000	2433.000	2433.000	627
Support rails TS 35/7.5	60	2316.000	2316.000	-	-	-	2316.000	2316.000	-	-	635
Tools for interior installation	4	-	2373.210	-	2373.210	2373.210	2373.210	2373.210	2373.300	2373.300	647
Perforated mounting strip	20	-	2310.038	-	2310.038	-	-	-	-	-	645
Earth straps											see page 639

¹⁾Stainless steel 1.4301 (AISI 304)

Ex enclosures



System accessories Page 637

Application range:

- Zone 1 and 2 or 21 and 22 to 94/95/EC
- Ambient temperature range: -30°C to +80°C
- Protection type to IEC 60 079
- Equipment protection thanks to increased safety, equipment protection thanks to enclosure

Material:

- Fibre-glass-reinforced unsaturated polyester, surface resistance: $< 10^9 \Omega$
- Door: Fibre-glass-reinforced unsaturated polyester, surface resistance: $< 10^9 \Omega$, all-round foamed-in silicone seal
- Mounting plate: Sheet steel, zinc-plated

Colour:
RAL 9011

Protection category:
IP 66 to IEC 60 529

Supply includes:

- Enclosure
- Door
- Mounting plate

Certificates:

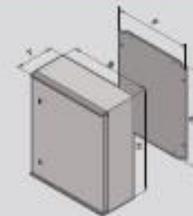
- PTB 03 ATEX 1011U
- IEC Ex PTB 10.0011U

Approvals:

- ATEX
- IEC

Detailed drawings:

Available on the Internet.



Plastic

Width (B) mm	Packs of	200	250	300	400	400	500	600	600	800	Page
Height (H) mm		300	350	400	400	400	500	600	600	800	6000
Depth (T) mm		150	150	200	200	200	300	300	300	300	
Mounting plate width (F) mm		145	195	245	245	245	417	545	517	717	
Mounting plate height (G) mm		250	300	350	350	350	450	500	500	650	
Model No. KEL	1	9201.600	9202.800	9203.800	9204.600	9205.600	9207.600	9206.600	9208.600	9209.600	
Cam lock with double-bit insert		1	1	2	2	2	2	2	-	-	
3-point locking rod		-	-	-	-	-	-	-	■	■	
Weight (kg)		3.7	4.6	6.0	6.5	11.5	12.9	15.9	24.3	33.0	
Accessories											
Wall mounting bracket	4	6090.000	6090.000	6090.000	6090.000	6090.000	6090.000	6090.000	6090.000	6090.000	638
Threaded inserts MI	20	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	1482.000	606
Mounting plate adjustment bracket	4	1481.000	1481.000	1481.000	1481.000	1481.000	1491.000	1481.000	1491.000	1491.000	634
Support rails							see page 654				
Earth strips							see page 659				
Cable duct							see page 715				

Botões e Sinaleiros Ø 22 mm
Botones e Indicadores Ø 22 mm

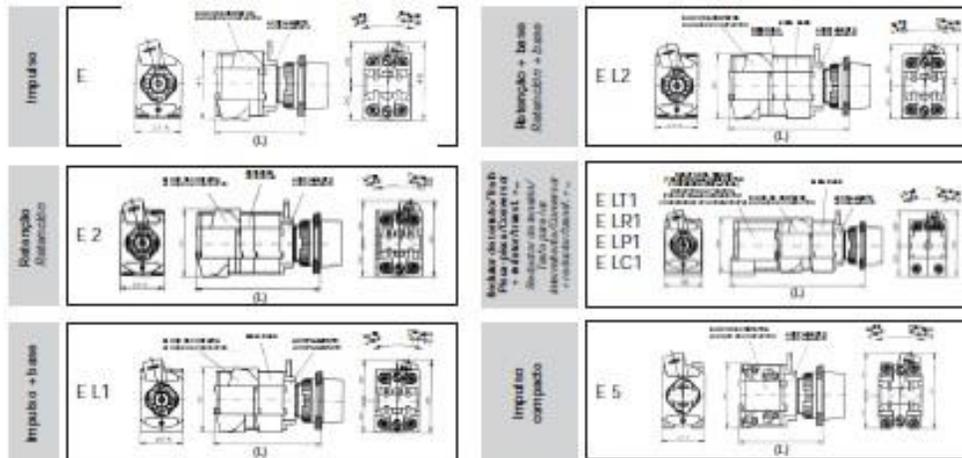
Rafix
Evolução



Soluções em Sistemas de Segurança e Automação
Soluciones en Sistemas de Seguridad y Automatización

SCHMERSAL
ACE

Blocos de Contato Conjugados / Bloques de Contacto Conjugados



IMPULSO				RETENÇÃO** / RETENCION**				COMPACTO**						
Distribuição dos contactos Distribución de los contactos	E	Dim. L 22mm	EL	Dim. L 27mm	Distribuição dos contactos Distribución de los contactos	E	Dim. L 22mm	EL	Dim. L 22mm	Distribuição dos contactos Distribución de los contactos	E	Dim. L 22mm	EL	Dim. L 22mm
1NA	E110	53	EL110	68	1NA	E210	72,5	EL210	72,5	2NA + 2NF**	E522	80	EL522	96
1NF*	E101	53	EL101	68	1NF*	E201	72,5	EL201	72,5	4NA + 4NF**	E544	80	EL544	96
1NA + 1NF*	E111	53	EL111	68	1NA + 1NF*	E211	72,5	EL211	72,5	6NA + 6NF**	E566	107	EL566	123
2NA	E120	53	EL120	68	2NA	E220	72,5	EL220	72,5					
2NF*	E102	53	EL102	68	2NF*	E202	72,5	EL202	72,5					
2NA + 2NF**	E122	80	EL122	96	2NA + 2NF**	E222	104,5	EL222	104,5					
3NA	E130	80	EL130	96	3NA	E230	104,5	EL230	104,5					
3NF*	E103	80	EL103	96	3NF*	E203	104,5	EL203	104,5					
3NA + 3NF**	E133	107	EL133	123	3NA + 3NF**	E233	131,5	EL233	131,5					
4NA	E140	80	EL140	96	4NA	E240	104,5	EL240	104,5					
4NF*	E104	80	EL104	96	4NF*	E204	104,5	EL204	104,5					
6NA	E160	107	EL160	123	6NA	E260	131,5	EL260	131,5					
6NF*	E106	107	EL106	123	6NF*	E206	131,5	EL206	131,5					

*NF = NC

Como especificar o código de um bloco de contato
Cómo especificar el código de un bloque de contacto

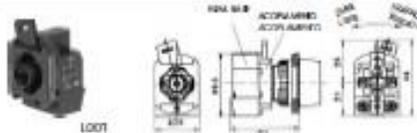
EL 111

Quantidade de contactos NF
Cantidad de contactos NC
Quantidade de contactos NA
Cantidad de contactos NA
1 - Bloco de Impulso
2 - Bloco de Retenção

E = Elemento de contato
EL = Elemento de contato + base para flange
E = Elemento de contato
EL = Elemento de contato + base para flange

** Não utilizar para o bloco de retenção e compacto com o tipo de 60° x 60°
** No utilizar para el bloque de retención y compacto con el tipo de 60° x 60°

Elementos Base Conjugados / Elementos Base Conjugados



L001: Elemento base para flange
alimentação direta
Elemento base para flange
alimentación directa

LH001: Elemento base para flange
com resistor indicar redução desejada
Elemento base para flange
con resistor indicar la reducción deseada

Potência máxima
Potencia máxima 2,5 W

Tensão
Tensión 250V

Aplicável em qualquer sinalizador
Aplicable a cualquier indicador