

Command and signalling

E 250, E 259 selection table

	Latching relays E250		Installation relays E259
			
	Contacts switching on each impulse sent to the control coil.		Contacts maintained in switched position only while the control coil is supplied.
General characteristics			
Type of command	Impulse (i.e. via pushbutton)		Continuous (i.e. via switch)
Energy consumption of command circuit	Only on pickup		For entire time contact switching is maintained
Local control lever	Yes		Yes, temporary
Main application	Lighting command by pushbuttons		Lighting command by switches, thermostats, time switches
Rated current	16 A	32 A	16 A
Single phase lamps load characteristics ①			
Incandescent and halogen	3000 W	4000 W	1800 W
Fluorescent power factor corrected in series	3000 VA	4000 VA	1800 VA
Fluorescent power factor corrected in parallel	2500 VA	3200 VA	500 VA
Fluorescent uncorrected power factor	1800 VA	2200 VA	900 VA
Power contacts			
1NA	■	■	■
2NA	■	■	■
Sequential	■		
1NA+1NC	■		■
2NA+2NC	with E250CM11		
3NA, 4NA	with E250CM20	with E250-32 CM20	■
1C/O, 2C/O	■		■
3C/O, 4C/O	with E250CM002		■

① See technical details for information on each lamp type

Command and signalling

E 259 installation relays



E 259

2CSC400721F0201

6

Technical features				1 - 2 contacts	3 - 4 contacts
Rated voltage Un		[V]		250	400
Rated frequency		[Hz]		50	50
Rated current in AC1/AC-7①		[A]		16	16
Control coil characteristics	a.c. power supply voltage	[V]		8, 12, 24, 48, 115, 230	12, 24, 48, 230
	d.c. power supply voltage	[V]		6, 12, 24, 48, 115	6, 12, 24, 115
	d.c./ a.c. ratio ①			0.5 : 1	0.5 : 1
	Operation limits			±10%	±10%
Power consumption					
a.c.	pick-up	[VA]		3.4	6.7
		[VA]		1.8	3.4
	d.c.	[W]		2.1	3.9
Load specifications per phase	Maximum load AC-1		[kW]	3	8.5
	Maximum load AC-5 ②		[kW]	1.8	1.8
	Maximum load AC-7 ②		[kW]	0.9	-
	Maximum load AC-3 (400V)		[kW]	-	2.2
	Maximum load DC			③	③
	Minimum load (under 5V)		[W]	2	2
	Short circuit fuse protection [gL]		[A]	20	20
Lifetime in number of operations	Electrical (in AC-1 at full load)		[No.]	3 x 10 ⁵	3 x 10 ⁵
	Mechanical		[No.]	2 x 10 ⁶	2 x 10 ⁶
Max.lamp power b	Incandescent and halogen (40-200W)		[W]	1800	1800
	Fluorescent	Parallel p.f. correction (cosφ=0.9)	[VA]	500	500
		p.f. uncorrected (cosφ=0.5)	[VA]	900	900
Width (number of DIN modules)		[No.]		1	2
Cable cross section (Ø min/max)		[mm ²]		1.5 / 10	1.5 / 10
Maximum torque on terminals		[Nm]		1	1
Min./Max. ambient T ° at installation point		[°C]		-20 ... +45	-20 ... +45
Standard				IEC EN 60947-4-1, IEC EN 61095	

① Control coil voltage: all the products work both in a.c. and d.c. (with the specified ratio) except the 115 V a.c. version that works at 48 d.c.

② See technical details for lamp types

③ See chart in technical details

Where to find more:

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Accessories for E259 p.10/218



E 259 1NO

2CSC400721F0201



E 259 2NO

2CSC400722F0201

E 259 installation relays

E 259 Installation relays are 16 A contactors specifically engineered for residential and commercial applications. Their high performance in the control of lamps makes them ideal for lighting circuit applications.

The front control lever indicates the position of the contacts and allows the relay to be commanded, for example for local testing of the circuit.

In installations that require several E 259 relays side by side, it is advisable to use E 259 DIS half-module width spacer elements every second relay for heat dissipation.

E 259, 16 A							
Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			EAN	Type code			
1NO	8 V a.c.	611233	E259 16-10/8	2CSM261123R0401		0.100	12
	12 V a.c. / 6 V d.c.	736936	E259 16-10/12	2CSM273693R0401		0.100	12
	24 V a.c. / 12 V d.c.	736035	E259 16-10/24	2CSM273603R0401		0.100	12
	48 V a.c. / 24 V d.c.	736837	E259 16-10/48	2CSM273683R0401		0.100	12
	230 V a.c. / 115 V d.c.	735939	E259 16-10/230	2CSM273593R0401		0.100	12
1NO+1NC	8 V a.c.	736738	E259 16-11/8	2CSM273673R0401		0.100	12
	12 V a.c. / 6 V d.c.	735830	E259 16-11/12	2CSM273583R0401		0.100	12
	24 V a.c. / 12 V d.c.	736639	E259 16-11/24	2CSM273663R0401		0.100	12
	48 V a.c. / 24 V d.c.	735731	E259 16-11/48	2CSM273573R0401		0.100	12
	230 V a.c. / 115 V d.c.	736530	E259 16-11/230	2CSM273653R0401		0.100	12
2NO	8 V a.c.	735632	E259 16-20/8	2CSM273563R0401		0.100	12
	12 V a.c. / 6 V d.c.	736431	E259 16-20/12	2CSM273643R0401		0.100	12
	24 V a.c. / 12 V d.c.	735533	E259 16-20/24	2CSM273553R0401		0.100	12
	48 V a.c. / 24 V d.c.	736332	E259 16-20/48	2CSM273633R0401		0.100	12
	115 V a.c. / 48 V d.c.	735434	E259 16-20/115	2CSM273543R0401		0.100	12
	230 V a.c. / 115 V d.c.	736233	E259 16-20/230	2CSM273623R0401		0.100	12
1CO	8 V a.c.	735335	E259 16-19/8	2CSM273533R0401		0.100	12
	12 V a.c. / 6 V d.c.	736134	E259 16-19/12	2CSM273613R0401		0.100	12
	24 V a.c. / 12 V d.c.	735236	E259 16-19/24	2CSM273523R0401		0.100	12
	48 V a.c. / 24 V d.c.	748335	E259 16-19/48	2CSM274833R0401		0.100	12
2CO	230 V a.c. / 115 V d.c.	611134	E259 16-19/230	2CSM261113R0401		0.100	12
	12 V a.c. / 6 V d.c.	735137	E259 16-29/12	2CSM273513R0401		0.100	12
	24 V a.c. / 12 V d.c.	734239	E259 16-29/24	2CSM273423R0401		0.100	12
3NO	230 V a.c. / 115 V DC	735038	E259 16-29/230	2CSM273503R0401		0.100	12
	230 V a.c. / 115 V DC	729839	E259 16-30/230	2CSM272983R0401		0.200	6
4NO	12 V a.c. / 6 V d.c.	734130	E259 16-40/12	2CSM273413R0401		0.200	6
	24 V a.c. / 12 V d.c.	734932	E259 16-40/24	2CSM273493R0401		0.200	6
	48 V a.c. / 24 V d.c.	729938	E259 16-40/48	2CSM272993R0401		0.200	6
	230 V a.c. / 115 V d.c.	734031	E259 16-40/230	2CSM273403R0401		0.200	6
3CO	230 V a.c. / 115 V d.c.	747833	E259 16-39/230	2CSM274783R0401		0.200	6
4CO	230 V a.c. / 115 V d.c.	730736	E259 16-49/230	2CSM273073R0401		0.200	6

Command and signalling E 250 latching relays



E 250 H

Auxiliary contacts							
	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	A	EAN	Type code	Order code		kg	pc.
1NO+1NC	5	534709	E 250 H11	2CSM004400R0201		0.033	16
2NO	5	536901	E 250 H20	2CSM002400R0201		0.033	16
2NC	5	536802	E 250 H02	2CSM008400R0201		0.033	16

Auxiliary contacts							
		Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
Spacer element for heat dissipation			E 259-DIS	2CSM000800R0401		0.04	25

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Accessories for E250 p.10/218



E 250

2CSC400147F0001

Technical characteristics			E 251 / E 252 / E 256		E 255	
Rated current I _n			[A]	16	32	16
Rated voltage U _n			[V]	250 (1-2 con- tacts) 400 (3-4 contacts)	250 (1-2 con- tacts) 400 (3-4 contacts)	250
Rated frequency			[Hz]	50/60 ①	50/60 ①	50/60 ①
Contacts	main module	NO		1 - 2	1 - 2	1 + 1
		change- over		1 - 2	1 - 2	-
		NO+NC		1 + 1	1 + 1	-
	additional power con- tacts	NO		2	2	-
		change- over		2	-	-
		NO+NC		1+1	-	-
Width (no. of DIN modules)	main module		[mod.]	1	1	1
	with additional power con- tacts		[mod.]	2	2	-
Control coil characteristics	supply voltage: d.c / a.c. ratio ②			0,5 : 1	0,5 : 1	0,5 : 1
	tolerance on supply voltage			±10%	±10%	±10%
	power con- sumption a.c.	holding ③	[VA]	11	11,5	11
		pick-up	[VA]	14,5	16,5	14,5
	power consumption d.c.		[W]	7,5	8	7,5
Pulse dura- tions	minimum pulse duration (at U _n)		[s]	0,05	0,05	0,05
	minimum pulse duration (90% U _n)		[s]	0,1	0,1	0,1
	minimum interval between two pulses		[s]	0,15	0,15	0,15
	maximum number of pulses per minute			250	250	250
Lifetime in number of operations ④	electrical (in AC-1 at full load)			4 x 10 ⁵	3 x 10 ⁵	3 x 10 ⁵
	mechanical			2 x 10 ⁶	2 x 10 ⁶	2 x 10 ⁶
Load characte- ristics	maximum load in AC-1 per phase		[A]	20	32	20
	maximum load in DC		[A]	⑥	⑥	⑥
	minimum load per phase (under 5 V)		[W]	2	2	2
	short circuit protection fuse (gL)		[A]	20	32	20

Command and signalling

E 250 latching relays

Technical characteristics			E 251 / E 252 / E 256		E 255	
Maximum no. of lamps (103 operations/h)	incandescent and halogen		[W]	3000	4000	3000
	fluorescent, corrected power factor (cosφ = 0,9)	series	[VA]	4000	4000	3000
		parallel	[VA]	2500	3200	2500
	fluorescent, uncorrected power factor (cosφ = 0,5)		[VA]	1800	2200	1800
Maximum number of buttons	non illuminated			unlimited	unlimited	unlimited
	illuminated	3 wires		unlimited	unlimited	unlimited
		2 wires		⑤	⑤	⑤
General characteristics	DIN rail mount			yes	yes	yes
	hooking on bistable DIN rail			yes	yes	yes
	two position knob			yes	yes	-
	contact position indication			yes	yes	yes
	label-holder			yes	yes	yes
	cage terminals			yes	yes	yes
	captive screws			yes	yes	yes
	sealable terminals			yes	yes	yes
	cable section (o min./max.)		[mm ²]	1,5/10 (2P: 6)	1,5/10 (2P: 6)	1,5/10
	min./max. operating temperature		[°C]	-20...+45	-20...+46	-20...+45

① All latching relays can also be used at 60Hz. In this case and excluding E255, you can use maximum one auxiliary contact E250H but it is not possible to use power contacts E250CM.

② Supply voltage: all devices operate in both a.c. and d.c., with the specified voltage ratios, except for the 115 V a.c. version that operates at 48 V d.c..

③ The relays can withstand the "button stuck" condition. When the application calls for the relays to be permanently supplied, spacers must be used on either side, making sure that the duty cycle allows the device to cool down to ambient temperature.

④ 1 cycle = 2 operations per pole (closing + opening)

⑤ See table for use of the E 250 CP compensator modules

⑥ See chart in technical details

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Accessories for E259 p.10/218



E 251-230

2CSC400147F0001

E 250 Latching relays

Allow switching of the contacts in response to each pulse sent to the coil via the normally open pushbuttons. Their high performance in the single or multi-point control of lamps make them an ideal solution for lighting circuits. The manual control lever also gives an indication of the contact position.

The relays come in versions with different coil voltages and contact configurations. The main modules, available in one- and two-contact versions, can be combined with two-pole power contact modules to obtain three-contact and four-contact devices. They can also be provided with auxiliary signal contacts.

E 250, 16 A							
Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
1NO	8 V a.c.	53050 3	E 251-8	2CSM211000R0201		0.114	12
	12 V a.c. / 6 V d.c.	53020 6	E 251-12	2CSM311000R0201		0.114	12
	24 V a.c. / 12 V d.c.	53040 4	E 251-24	2CSM411000R0201		0.114	12
	48 V a.c. / 24 V d.c.	53060 2	E 251-48	2CSM511000R0201		0.114	12
	230 V a.c. / 115 V d.c.	53030 5	E 251-230	2CSM111000R0201		0.114	12
1NO+1NC	8 V a.c.	53190 6	E 256-8	2CSM214000R0201		0.116	12
	12 V a.c. / 6 V d.c.	53160 9	E 256-12	2CSM314000R0201		0.116	12
	24 V a.c. / 12 V d.c.	53180 7	E 256-24	2CSM414000R0201		0.116	12
	48 V a.c. / 24 V d.c.	53200 2	E 256-48	2CSM514000R0201		0.116	12
	230 V a.c. / 115 V d.c.	53170 8	E 256-230	2CSM114000R0201		0.116	12
2NO	8 V a.c.	53100 5	E 252-8	2CSM212000R0201		0.116	12
	12 V a.c. / 6 V d.c.	53070 1	E 252-12	2CSM312000R0201		0.116	12
	24 V a.c. / 12 V d.c.	53090 9	E 252-24	2CSM412000R0201		0.116	12
	48 V a.c. / 24 V d.c.	53110 4	E 252-48	2CSM512000R0201		0.116	12
	230 V a.c. / 115 V d.c.	53080 0	E 252-230	2CSM112000R0201		0.116	12
1CO	12 V a.c. / 6 V d.c.	53720 5	E 256.1-12	2CSM315000R0201		0.115	12
	24 V a.c. / 12 V d.c.	53740 3	E 256.1-24	2CSM415000R0201		0.115	12
	230 V a.c. / 115 V d.c.	53730 4	E 256.1-230	2CSM115000R0201		0.115	12
2CO	12 V a.c. / 6 V d.c.	53750 2	E 256.2-12	2CSM316000R0201		0.118	12
	24 V a.c. / 12 V d.c.	53770 0	E 256.2-24	2CSM416000R0201		0.118	12
	230 V a.c. / 115 V d.c.	53760 1	E 256.2-230	2CSM116000R0201		0.118	12

Command and signalling

E 250 latching relays



E251-32/8

2CSC40002D021

E 250, 32 A

Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
1NO	8 V a.c.	91200 2	E 251-32/8	2CSM231000R0201		0.114	12
	12 V a.c. / 6 V d.c.	91210 1	E 251-32/12	2CSM331000R0201		0.114	12
	24 V a.c. / 12 V d.c.	91220 0	E 251-32/24	2CSM431000R0201		0.114	12
	48 V a.c. / 24 V d.c.	91230 9	E 251-32/48	2CSM531000R0201		0.114	12
	115 V a.c. / 48 V d.c.	91240 8	E 251-32/115	2CSM631000R0201		0.114	12
	230 V a.c. / 115 V d.c.	91250 7	E 251-32/230	2CSM131000R0201		0.114	12
2NO	8 V a.c.	91260 6	E 252-32/8	2CSM232000R0201		0.116	12
	12 V a.c. / 6 V d.c.	91270 5	E 252-32/12	2CSM332000R0201		0.116	12
	24 V a.c. / 12 V d.c.	91280 4	E 252-32/24	2CSM432000R0201		0.116	12
	48 V a.c. / 24 V d.c.	91290 3	E 252-32/48	2CSM532000R0201		0.116	12
	115 V a.c. / 48 V d.c.	91300 9	E 252-32/115	2CSM632000R0201		0.116	12
	230 V a.c. / 115 V d.c.	91310 8	E 252-32/230	2CSM132000R0201		0.116	12

E 255, 16 A with 2 sequential contacts

This particular version is equipped with two sequential switching contacts. In the initial stable position both contacts are open: one pulse causes the first contact (A) to close; the next pulse causes the second contact to also close (B); a third pulse causes contact A to open and a final pulse completes the cycle by also reopening contact B, thus returning both contacts to their initial state.

The E255 relays cannot be combined with power contacts or auxiliary devices. They are equipped with two LEDs that give an indication of the contact position.

Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
2	8 V a.c.	53150 0	E 255-8	2CSM219000R0201		0.121	12
	12 V a.c. / 6 V d.c.	53120 3	E 255-12	2CSM319000R0201		0.121	12
	24 V a.c. / 12 V d.c.	53140 1	E 255-24	2CSM419000R0201		0.121	12
	230 V a.c. / 115 V d.c.	53130 2	E 255-230	2CSM119000R0201		0.121	12



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Accessories for E259 p.10/218



E 250

2CSC40002D0211

Technical characteristics			E 257 C		E 258 C	
Rated voltage Un			[V]	250 (1-2 con- tacts) 400 (3 contacts)	250 (1-2 con- tacts) 400 (3 contacts)	250 (1-2 con- tacts) 400 (3 contacts)
Rated current In			[A]	16	32	16
Rated frequency			[Hz]	50/60 ①	50/60 ①	50/60 ①
Contacts	NO			1...3	1...3	1...3
	change-over			1...3	-	1...3
	NO+NC			-	-	1 + 1
Width (no. of DIN modules)			[mod.]	1 - 2	1 - 2	2
Control coil charac- teris- tics	supply voltage: d.c / a.c. ratio ②			0,5 : 1	0,5 : 1	0,5 : 1
	tolerance on supply voltage			±10%	±10%	±10%
	power consumption	holding ③	[VA]	11	14,5	14,5
	a.c.	pick-up	[VA]	11	14,5	14,5
	power consumption	d.c.	[W]	7,5	8	8
ON-OFF command charac- teris- tics	supply voltage			see control coil characteristics		24 V a.c./d.c. 230 V a.c./d.c.
	tolerance on supply voltage					±10%
	power consumption	holding ③	[VA]			12
	a.c.	pick-up	[VA]			12
	power consumption	d.c.	[W]			12,5
Pulse dura- tions	minimum pulse duration (at Un)		[s]	0,05	0,05	0,05
	minimum pulse duration (90% Un)		[s]	0,1	0,1	0,1
	minimum interval between two pulses		[s]	0,15	0,15	0,15
	maximum number of pulses per minute			250	250	250
	Lifetime in number of operations ④	electrical (in AC-1 at full load)			4×10^5	3×10^5
mechanical			2×10^6	2×10^6	2×10^6	
Load cha- racteris- tics	maximum load in AC-1 per phase		[A]	20	32	20
	maximum load in DC		[A]	⑥	⑥	⑥
	minimum load per phase (under 5 V)		[W]	2	2	2
	short circuit protection fuse (gL)		[A]	20	32	20
Maximum no. of lamps (103 operations/h)	incandescent and halogen		[W]	3000	4000	3000
	fluorescent, cor- rected power factor ($\cos\phi = 0,9$)	series	[VA]	3000	4000	3000
		parallel	[VA]	2500	3200	2500
	fluorescent, uncorrected power factor ($\cos\phi = 0,5$)		[VA]	1800	2200	1800

Command and signalling

E 250 latching relays

Technical characteristics			E 257 C	E 258 C
Maximum number of buttons	non illuminated		unlimited	unlimited
	illuminated	3 wires	unlimited	unlimited
		2 wires	⑤	⑤
General characteristics	DIN rail mount		yes	yes
	hooking on bistable DIN rail		yes	yes
	two position knob		yes	yes
	contact position indication		yes	yes
	label-holder		yes	yes
	cage terminals		yes	yes
	captive screws		yes	yes
	sealable terminals		yes	yes
	cable section (o min./max.)	[mm ²]	1,5/10	1,5/10
	min./max. operating temperature	[°C]	-20...+45	-20...+45

- ① All latching relays can also be used at 60Hz. In this case and excluding E255, you can use maximum one auxiliary contact E250H but it is not possible to use power contacts E250CM.
- ② Supply voltage: all devices operate in both a.c. and d.c., with the specified voltage ratios, except for the 115 V a.c. version that operates at 48 V d.c..
- ③ The relays can withstand the "button stuck" condition. When the application calls for the relays to be permanently supplied, spacers must be used on either side, making sure that the duty cycle allows the device to cool down to ambient temperature.
- ④ 1 cycle = 2 operations per pole (closing + opening)
- ⑤ See table for use of the E 250 CP compensator modules
- ⑥ See chart in technical details

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Accessories for E259 p.10/218



E 250

2CSC40002D0211

Latching relays with central command function

The E 257 C and E 258 C versions are latching relays which integrate a central command function (ON and OFF) that allows multiple relays to be controlled from a pair of normally open push-buttons. Using the E 250 GM group module it is also possible to create sub-groups of relays, so as to implement central command of individual subgroups as well as of the entire group of relays. The central command circuit can be permanently supplied, but in that case the circuit of the local coil is excluded.

On E 257 C the central (ON/OFF) command needs to be supplied on the same line as the local push-buttons (see diagram below). This is not required for E 258 C, which can thus also be supplied on the central command at a different voltage than the local pushbuttons circuit.

E 257, 16 A

Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
1NO	12 V a.c. / 6 V d.c.	53210 1	E 257 C10-12	2CSM311000R0211		0.126	12
	24 V a.c. / 12 V d.c.	53230 9	E 257 C10-24	2CSM411000R0211		0.126	12
	230 V a.c. / 115 V d.c.	53220 0	E 257 C10-230	2CSM111000R0211		0.126	12
2NO	12 V a.c. / 6 V d.c.	53240 8	E 257 C20-12	2CSM312000R0211		0.174	8
	24 V a.c. / 12 V d.c.	53260 6	E 257 C20-24	2CSM412000R0211		0.174	8
	230 V a.c. / 115 V d.c.	53250 7	E 257 C20-230	2CSM112000R0211		0.174	8
3NO	12 V a.c. / 6 V d.c.	53480 8	E 257 C30-12	2CSM313000R0211		0.240	6
	24 V a.c. / 12 V d.c.	53500 3	E 257 C30-24	2CSM413000R0211		0.240	6
	230 V a.c. / 115 V d.c.	53490 7	E 257 C30-230	2CSM113000R0211		0.240	6
1CO	12 V a.c. / 6 V d.c.	54020 5	E 257 C001-12	2CSM315000R0211		0.126	12
	24 V a.c. / 12 V d.c.	54010 6	E 257 C001-24	2CSM415000R0211		0.126	12
	230 V a.c. / 115 V d.c.	54000 7	E 257 C001-230	2CSM115000R0211		0.126	12
2CO	12 V a.c. / 6 V d.c.	54050 2	E 257 C002-12	2CSM316000R0211		0.174	8
	24 V a.c. / 12 V d.c.	54040 3	E 257 C002-24	2CSM416000R0211		0.174	8
	230 V a.c. / 115 V d.c.	54030 4	E 257 C002-230	2CSM116000R0211		0.174	8
3CO	12 V a.c. / 6 V d.c.	54080 9	E 257 C003-12	2CSM317000R0211		0.240	6
	24 V a.c. / 12 V d.c.	54070 0	E 257 C003-24	2CSM417000R0211		0.240	6
	230 V a.c. / 115 V d.c.	54060 1	E 257 C003-230	2CSM117000R0211		0.240	6

E 257, 32 A

Contacts	Coil voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
1NO	12 V a.c. / 6 V d.c.	91320 7	E 257-32C10/12	2CSM331000R0211		0.126	12
	24 V a.c. / 12 V d.c.	91330 6	E 257-32C10/24	2CSM431000R0211		0.126	12
	230 V a.c. / 115 V d.c.	91340 5	E 257-32C10/230	2CSM131000R0211		0.126	12
2NO	12 V a.c. / 6 V d.c.	91350 4	E 257-32C20/12	2CSM332000R0211		0.174	8
	24 V a.c. / 12 V d.c.	91360 3	E 257-32C20/24	2CSM432000R0211		0.174	8
	230 V a.c. / 115 V d.c.	91370 2	E 257-32C20/230	2CSM132000R0211		0.174	8
3NO	12 V a.c. / 6 V d.c.	91380 1	E 257-32C30/12	2CSM333000R0211		0.240	6
	24 V a.c. / 12 V d.c.	91390 0	E 257-32C30/24	2CSM433000R0211		0.240	6
	230 V a.c. / 115 V d.c.	91400 6	E 257-32C30/230	2CSM133000R0211		0.240	6

Command and signalling

E 250 latching relays



E 257 32-C30/12

2CSC400004F0201



E 258 C003-230/24

2CSC400005F0201

6

E 258 C, 16 A

Local coil voltage 230 V a.c. / 115 V d.c., central ON/OFF 24 V a.c./d.c.

Contacts	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
1 NO	78910 9	E 258 C10-230/24	2CSM211000R0231		0.226	6
2 NO	78830 0	E 258 C20-230/24	2CSM212000R0231		0.235	6
1 NO + 1 NC	78870 6	E 258 C11-230/24	2CSM213000R0231		0.232	6
1 NO + 1 NC +1 CO	78890 4	E 258 C111-230/24	2CSM215000R0231		0.239	6
2 NO +1 CO	78850 8	E 258 C201-230/24	2CSM214000R0231		0.241	6
2 CO	78960 4	E 258 C002-230/24	2CSM216000R0231		0.25	6
3 CO	78990 1	E 258 C003-230/24	2CSM217000R0231		0.256	6

Local coil voltage 230 V a.c. / 115 V d.c., central ON/OFF 230 V a.c./d.c.

Contacts	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
1 NO	78920 8	E 258 C10-230/230	2CSM111000R0231		0.233	6
2 NO	78840 9	E 258 C20-230/230	2CSM112000R0231		0.243	6
1 NO + 1 NC	78880 5	E 258 C11-230/230	2CSM113000R0231		0.24	6
1 NO + 1 NC +1 CO	78900 0	E 258 C111-230/230	2CSM115000R0231		0.244	6
2 NO +1 CO	78860 7	E 258 C201-230/230	2CSM114000R0231		0.247	6
2 CO	78970 3	E 258 C002-230/230	2CSM116000R0231		0.257	6
3 CO	79000 6	E 258 C003-230/230	2CSM117000R0231		0.262	6

Local coil voltage 24 V a.c. / 12 V d.c., central ON/OFF 24 V a.c./d.c.

Contacts	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
1 NO	79010 5	E 258 C10-24/24	2CSM411000R0231		0.225	6
2 NO	78930 7	E 258 C20-24/24	2CSM412000R0231		0.234	6
2 NO +1 CO	78940 6	E 258 C201-24/24	2CSM414000R0231		0.241	6
2 CO	78950 5	E 258 C002-24/24	2CSM416000R0231		0.249	6
3 CO	78980 2	E 258 C003-24/24	2CSM417000R0231		0.256	6

Where to find more:

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Maybe you are also interested in:

Accessories for E259 p.10/218



E 250

2CSC400723R0201

Auxiliary components and accessories for E 250

Additional power contacts for all coil voltages

Contacts	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
2NO	16A	53460 0	E 250 CM20	2CSM012100R0201		0.058	10
1NO+1NC	16A	53450 1	E 250 CM11	2CSM014100R0201		0.058	10
2CO	16A	53440 2	E 250 CM002	2CSM016100R0201		0.059	10
2NO	32A	91410 5	E 250-32 CM20*	2CSM032100R0201		0.058	10

* To be used only with 32 A latching relays

Auxiliary contacts

Contacts	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code			
1NO+1NC	5A	53470 9	E 250 H11	2CSM004400R0201		0.033	16
2NO	5A	53690 1	E 250 H20	2CSM002400R0201		0.033	16
2NC	5A	53680 2	E 250 H02	2CSM008400R0201		0.033	16

Other accessories

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
central command for E251, E252 and E256	53510 2	E 257 CM	2CSM000200R0211		0.033	16
group module	53700 7	E 250 GM	2CSM000600R0201		0.058	12
compensator module	53710 6	E 250 CP	2CSM000500R0201		0.058	12

Command and signalling

FLR latching relays



FLR

Technical features		FLR1	FLR5
Contact type		1NO	2NO
Number of sequences	[No.]	2	4
Rated voltage	[V]	12 / 230 AC	
Rated load		10 A / 250 V AC	
Max. Peak current	[A]	15	
Max. switching power	[VA]	2500	
Max. switching voltage	[V]	250 AC	
Incandescent lamp load	[W]	805	
Fluorescent lamp load	[W]	345	
Frequency	[Hz]	50-60	
Type of operation		sequential - mechanical	
Protection degree		IP20	
Max. number of electrical operations	[No.]	100000	
Max. number of mechanical operations	[No.]	300000	
Insulation resistance	[MW]	100 (500 V DC)	
Dielectric strength (contacts)	[V]	2000 AC	
Dielectric strength (coil)	[V]	3500 AC	
Power dissipation	[VA]	4.5	
Operating temperature	[°C]	-25...+55	
Max. Cable section at terminals	[mm ²]	1...2.5	
Terminals		screw	
Tightening torque	[Nm]	0.5	
Installation type		wall/flush mounting	
Dimensions (LxWxH)	[mm]	45 x 22 x 45	
Standards		EN 60669-1 ; EN 60669-2-1	

Characteristics of the contact

Type	No. of pulses	Sequences			
		1	2	3	4
FLR1-12	2	∩	∩		
FLR1-230	2	∩	∩		
FLR5-12	2	∩∩	∩∩	∩∩	∩∩
FLR5-230	2	∩∩	∩∩	∩∩	∩∩

Flush mounting latching relays

Speed and ease of assembly, along with their compact size, make the FLR flush mounting latching relays suitable for installation inside flush mount or junction boxes. They are ideal for implementing multipoint command of lighting systems in residential and commercial installations, so as to simplify and reduce the cost of wiring.

Contacts	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
	8012542	Type code	Order code			
	EAN				kg	pc.
1	063650	FLR1-12	2CSM206365R0241		0.06	20
1	063759	FLR1-230	2CSM206375R0241		0.06	20
2	063858	FLR5-12	2CSM206385R0241		0.06	20
2	063957	FLR5-230	2CSM206395R0241		0.06	20

Where to find more:

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Command and signalling

E 260 latching relays



E 260

2CSC400002R0201

Technical features	E 260/E 260 C
Rated load at 250 V AC	8 A
Incandescent lamp load	1000 W
Fluorescent lamp load in twin-lamp circuit	1000 W
Fluorescent lamp load shunt compensated	350 W ①
Fluorescent lamp load inductive or capacitive	500 W
Electronic ballast	100 m 70 A/10 ms ②
Inductive load, $\cos\phi = 0.6/230\text{ V} \sim$	5 A
Contact rating at DC	100 W
Minimum contact rating	4 V AC/10 mA
Contact gap/contact material	0.5 mm/Ag Sn02
Service life mechanical switchover at 103/h	$> 10^7$
Service life at rated load $\cos\phi = 1$ and 103/h	$> 10^5$
Service life with filament lamps at 103/h	800 W $> 10^5$, 1000 W $> 0.8 \times 10^5$
Service life at rated load $\cos\phi = 0.6$ and 103/h	$> 10^4$
Max. switching rate	$10^3/\text{h}$
Bounce time	3 ms
Connection capacity	2 x 1.5 mm ² with connector sleeve
Tightening torque	0.5 ... 0.8 Nm
ON duration at rated voltage	100 %
Coil voltage range	0.9 to 1.1 Un
Minimum command time/interval between commands	50/1000 ms
Ambient temperature	-20 °C / -4 °F to 50 °C / 122 °F
Control current when controlled locally	230 V AC 115 mA, after 10s 8 mA $\pm 20\%$
Control current when controlled centrally	230 V AC 8 mA, after 10s 3 mA $\pm 20\%$
Max. parallel capacity of individual control wire at 230 V \sim	0.7 μF (ca. 2000 m)
Max. parallel capacity of central control wire at 230 V \sim	0.2 μF (ca. 700 m)
Max. glow lamp current – parallel to 230 V control buttons	10 mA
Max. induced voltage at 230 V control inputs	0.2 Un

Latching relays for lamp installations on request.

① E 260 C can not be used with fluorescent lamp load shunt compensated.

② In the case of electronic control gear, take into account a 40-fold inrush current.

E 260 electronic latching relays

Where to find more:

Worldwide Marks and Approvals of MDRCs p.11/96



E 260

2CSC4000066R0201

The electronic version of latching relays guarantees maximum reliability, life, and noiseless operation. The E 260 C version also allows centralized reset function (ON/OFF).

Latching relays with control electronics
Coil voltage UC = 24 V AC/DC

Contacts	Power loss W ①	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1 NO	2.4 (3.0)	57592 8	E 261-24	2CDE441000R0301		0.085	1
1 NO+1 NC	2.4 (3.5)	57595 9	E 266-24	2CDE444000R0301		0.096	1
2 NO	2.4 (3.5)	57593 5	E 262-24	2CDE442000R0301		0.096	1

Coil voltage UC = 230 V AC

Contacts	Power loss W ①	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1 NO	1.5 (2.0)	57596 6	E 261-230	2CDE141000R0301		0.085	1
1 NO+1 NC	1.7 (3.6)	57598 0	E 266-230	2CDE144000R0301		0.096	1
2 NO	1.7 (3.6)	57597 3	E 262-230	2CDE142000R0301		0.096	1

Latching relays with control electronics for central ON/OFF switch

The central commands have always priority and reliably switch on/off any given number of devices connected in parallel, irrespective of their previous switching position. Local control inputs are blocked when a central command is received. Same potential at central / local control input.

Coil voltage UC = 24 V AC/DC

Contacts	Power loss W ①	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1 NO	2.4 (3.0)	57599 7	E 261 C-24	2CDE441000R0311		0.085	1
1 NO+1 NC	2.4 (3.5)	57601 7	E 266 C-24	2CDE444000R0311		0.096	1
2 NO	2.4 (3.5)	57600 0	E 262 C-24	2CDE442000R0311		0.096	1

Coil voltage UC = 230 V AC

Contacts	Power loss W ①	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1 NO	1.5 (2.0)	57602 4	E 261 C-230	2CDE141000R0311		0.085	1
1 NO+1 NC	1.7 (3.0)	57604 8	E 266 C-230	2CDE144000R0311		0.096	1
2 NO	1.7 (3.0)	57603 1	E 262 C-230	2CDE142000R0311		0.096	1

Where to find more:

Worldwide Marks and Approvals of
MDRCs p.11/96