




Standards / Marking

EN 60947-4-1 

Relays

Contax R

Function

Relays are electromechanically controlled switches used to control low power loads.



Applications



- Switching of lighting, heating, etc.
- Galvanic insulation of i.e. status signalisation lamps from a (high) power (high voltage) circuit.
- Galvanic insulation of PLC-inputs or outputs to avoid destruction through excessive voltage.

Features

- Besides the normal operation through electrically energising the coil, manual operation is possible at all times.
- The switch position is visualised by the position of the front handle.
- The safety terminals are equipped with captive Pozidriv screws and have IP20 protection degree.
- Add-on auxiliary contacts available.
- Because of the advanced product design, no spacers are needed.
- Increased safety: sealing caps for both coil and terminal are available.

More technical data  website
 Dimensions  pg D.44

New



Performance

			Contax R
			CTX + R16
Rated current (according to EN 60947-4-1)			
250VAC (1 & 2 pole) / 400VAC (3 & 4 pole)		A	16
Nominal thermal current (I _{th})		A	16
Number of pole			1 → 4
Contacts	NO		1 → 4
	Changeover ("m" contacts)		1 → 4
	NO + NC		1+1 / 2+2
Width (in 17.8mm DIN modules)	1P & 2P	Mod.	1
	3P & 4P	Mod.	2
Coil specifications			
Supply voltage : DC/AC ratio ⁽¹⁾			0.5 / 1
Supply voltage range (in % of U _n)		%	85-110
Coil pick-up power	1P & 2P	VA	3.4
	3P & 4P	VA	6.7
Coil power loss - AC	1P & 2P	VA	1.8
	3P & 4P	VA	3.4
Coil power loss - DC	1P & 2P	W	2.1
	3P & 4P	W	3.9
Maximum coil holding voltage time			unlimited
Contact bounce time at closing		sec.	<0.010
Operate and release time (bounce time incl.)			
Pick-up time	NO contact	sec.	< 0.040
(from 0 to U _n)	NC contact	sec.	< 0.020
Drop-out time	NO contact	sec.	< 0.050
(from U _n to 0)	NC contact	sec.	< 0.050
Maximum peak current at closing			
Single phase 250VAC cos φ = 0.95		A	45
3-phase 400V~ cos φ = 0.65		A	60
Maximum peak current at opening			
Single phase 250VAC cos φ = 0.95		A	75
3-phase 400V~ cos φ = 0.65		A	60
Lifetime (in number of operations)⁽²⁾			
Electrical (in AC-1 - At full load)			3 × 10 ⁵
Mechanical			2 × 10 ⁶
Load specifications per phase			
Maximum load AC-1	1P & 2P	kW	3.0
	3P & 4P	kW	8.5
Maximum load AC-5b		kW	1.8
Maximum load AC-7b		kW	0.9
Maximum load AC-3	250VAC	kW	1.5
	400VAC	kW	2.2
Minimum load (under 5V)		W	2
Short-circuit fuse protection		A	20
Maximum lamp load (10³ operations/h)			
Incandesc. & halogen (40 to 200 W lamps)		W	1,800
Fluorescence, compensated (cos φ = 0.9)			
	Serial compensation	VA	1,800
	Parallel compensation	VA	500
Fluorescence, non compensated (cos φ = 0.5)		VA	900
General specifications			
Auxiliary contact add-on (PLS / CTX R)			yes
Need for spacer			no
DIN rail mounting			yes
2-position DIN rail lock			yes
Front handle for manual operation			yes
Permanent ON/OFF			no
Indicator of contact position			yes
Clamping terminals			yes
Unlosable screws			yes
Sealable terminals (coil and load)			yes
Cable cross section (Ø min./max)	Coil	mm ²	1.5 / 10
	Load	mm ²	1.5 / 10
Maximum torque on terminals		Nm	1
Ambient temperature at installation point (min./max.)		°C	-20 / +45

(1) DC supply voltage = AC supply voltage × DC/AC ratio, except for 8VAC and 115VAC (48VDC)

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

Contax R

A

B

C

D

E

F

G

X



New

Impulse switches and relays: maximum lamp loads

Comfort functions

A

B

C

D

E

F

G










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Lamps type	Lamp Watts	Pulsar S	Pulsar S	Contax R
	Power consumption	PLS + 16	PLS + 32	CTX + R16
Incandescent lamps				
Max. load 230VAC		3000 W	4000 W	1800 W
Max. number of lamps	15 W	200	266	120
	25 W	120	160	72
	40 W	75	102	45
	60 W	50	65	30
	75 W	40	52	24
	100 W	30	40	18
	150 W	20	26	12
	200 W	15	20	9
	300 W	9	12	6
	500 W	5	8	3
Fluo lamp PF uncorrected				
Max. load 230VAC		1800 W	2200 W	900 W
Max. number of lamps	18 W	81	110	50
	36 W	44	58	25
	40 W	38	53	23
	58 W	29	35	16
	65 W	26	34	13
Fluo twin lamps				
Max. load 230VAC		3000 W	4000 W	1800 W
Max. number of lamps	2 x 18 W	78	110	50
	2 x 36 W	38	55	25
	2 x 40 W	35	50	23
	2 x 58 W	23	34	16
	2 x 65 W	22	30	13
Fluo lamp parallel compensation				
Max. load 230VAC		2500 W	3200 W	500 W
Max. number of lamps	18 W	103	132	17
	36 W	55	72	13
	40 W	50	65	12
	58 W	34	45	8
	65 W	30	40	7
Halogen 230V				
Max. load 230VAC		3000 W	4000 W	1800 W
Max. number of lamps	150 W	20	26	12
	250 W	12	16	7
	300 W	10	13	6
	400 W	7	10	4
	500 W	6	8	3
	1000 W	3	4	2
HP sodium vapour				
Max. load 230VAC		1200 W	1600 W	800 W
Max. number of lamps	70 W	15	18	10
	150 W	8	10	5
	250 W	4	6	3
	400 W	3	4	2
	1000 W	1	1	-
LP sodium vapour				
Max. load 230VAC		1400 W	2000 W	400 W
Max. number of lamps	55 W	27	36	6
	90 W	16	22	4
	135 W	11	14	3
	180 W	8	11	2
	185 W	8	10	2
HP mercury vapour				
Max. load 230VAC		1200 W	1600 W	800 W
Max. number of lamps	50 W	19	25	16
	80 W	15	20	10
	125 W	9	12	7
	250 W	4	6	3
	400 W	3	4	2
	1000 W	1	2	-
VLV halogen				
Max. load 230VAC		2300 W	3200 W	1500 W
Max. number of lamps	20 W	116	160	72
	50 W	46	64	29
	75 W	31	42	20
	100 W	24	32	15
	150 W	15	21	10
	200 W	12	16	7
	300 W	7	10	5
Electronic reactor				
Max. load 230VAC		1600 W	2200 W	1000 W
Max. number of lamps	1 x 18 W	83	112	38
	1 x 36 W	46	61	30
	1 x 58 W	31	38	17
	2 x 18 W	40	56	19
	2 x 36 W	23	30	15
	2 x 58 W	14	19	8

New



Contax R - Relays

	Nominal current	Contact combination	Coil voltage AC	Coil voltage DC	Number of Modules	Cat. No.	Ref. No.	Pack.			
	2	16A	1 NO	8	-	1	CTX + R 16 10 008 A	686007	12		
		16A	1 NO	12	6	1	CTX + R 16 10 012 A	686008	12		
		16A	1 NO	24	12	1	CTX + R 16 10 024 A	686009	12		
		16A	1 NO	48	24	1	CTX + R 16 10 048 A	686010	12		
		16A	1 NO	115	48	1	CTX + R 16 10 115 A	686011	12		
		16A	1 NO	230	115	1	CTX + R 16 10 230 A	686013	12		
		16A	1 NO	230/60Hz	-	1	CTX + R 16 10 23060	686012	12		
		16A	1 NO	240	120	1	CTX + R 16 10 240 A	686014	12		
	14 12	16A	1 CO	8	-	1	CTX + R 16 1 008 A	686000	12		
		16A	1 CO	12	6	1	CTX + R 16 1 012 A	686001	12		
		16A	1 CO	24	12	1	CTX + R 16 1 024 A	686002	12		
		16A	1 CO	48	24	1	CTX + R 16 1 048 A	686003	12		
		16A	1 CO	115	48	1	CTX + R 16 1 115 A	686004	12		
		16A	1 CO	230	115	1	CTX + R 16 1 230 A	686005	12		
		16A	1 CO	240	120	1	CTX + R 16 1 240 A	686006	12		
	4 2	16A	2 NO	8	-	1	CTX + R 16 20 008 A	686036	12		
		16A	2 NO	12	6	1	CTX + R 16 20 012 A	686037	12		
		16A	2 NO	24	12	1	CTX + R 16 20 024 A	686038	12		
		16A	2 NO	48	24	1	CTX + R 16 20 048 A	686039	12		
		16A	2 NO	115	48	1	CTX + R 16 20 115 A	686040	12		
		16A	2 NO	230	115	1	CTX + R 16 20 230 A	686042	12		
		16A	2 NO	230/60Hz	-	1	CTX + R 16 20 23060	686041	12		
		16A	2 NO	240	120	1	CTX + R 16 20 240 A	686043	12		
			4 2	16A	1 NO 1 NC	8	-	1	CTX + R 16 11 008 A	686015	12
				16A	1 NO 1 NC	12	6	1	CTX + R 16 11 012 A	686016	12
16A	1 NO 1 NC			24	12	1	CTX + R 16 11 024 A	686017	12		
16A	1 NO 1 NC			48	24	1	CTX + R 16 11 048 A	686018	12		
16A	1 NO 1 NC			115	48	1	CTX + R 16 11 115 A	686019	12		
16A	1 NO 1 NC			230	115	1	CTX + R 16 11 230 A	686021	12		
16A	1 NO 1 NC			230/60Hz	-	1	CTX + R 16 11 23060	686020	12		
16A	1 NO 1 NC			240	120	1	CTX + R 16 11 240 A	686022	12		
	24 22 14 12	16A	2 CO	8	-	1	CTX + R 16 2 008 A	686023	12		
		16A	2 CO	12	6	1	CTX + R 16 2 012 A	686024	12		
		16A	2 CO	24	12	1	CTX + R 16 2 024 A	686026	12		
		16A	2 CO	48	24	1	CTX + R 16 2 048 A	686028	12		
		16A	2 CO	115	48	1	CTX + R 16 2 115 A	686030	12		
		16A	2 CO	230	115	1	CTX + R 16 2 230 A	686032	12		
		16A	2 CO	240	120	1	CTX + R 16 2 240 A	686034	12		
			6 4 2	16A	3 NO	12	6	2	CTX + R 16 30 012 A	686050	6
16A	3 NO			24	12	2	CTX + R 16 30 024 A	686051	6		
16A	3 NO			48	24	2	CTX + R 16 30 048 A	686052	6		
16A	3 NO			230	115	2	CTX + R 16 30 230 A	686053	6		
16A	3 NO			240	120	2	CTX + R 16 30 240 A	686054	6		
	8 6 4 2	16A	4 NO	8	-	2	CTX + R 16 40 008 A	686025	6		
		16A	4 NO	12	6	2	CTX + R 16 40 012 A	686060	6		
		16A	4 NO	24	12	2	CTX + R 16 40 024 A	686061	6		
		16A	4 NO	48	24	2	CTX + R 16 40 048 A	686062	6		
		16A	4 NO	230	115	2	CTX + R 16 40 230 A	686064	6		
		16A	4 NO	230/60Hz	-	2	CTX + R 16 40 23060	686063	6		
		16A	4 NO	240	120	2	CTX + R 16 40 240 A	686065	6		
			44 42 34 32 24 22 14 12	16A	4 CO	12	6	2	CTX + R 16 4 012 A	686054	6
16A	4 CO			24	12	2	CTX + R 16 4 024 A	686055	6		
16A	4 CO			48	24	2	CTX + R 16 4 048 A	686056	6		
16A	4 CO			115	48	2	CTX + R 16 4 115 A	686057	6		
16A	4 CO			230	115	2	CTX + R 16 4 230 A	686058	6		
16A	4 CO			240	120	2	CTX + R 16 4 240 A	686059	6		
16A	4 CO			230/60Hz	-	2	CTX + R 16 4 23060	686058	6		
	8 6 4 2	16A	2 NO 2 NC	8	-	2	CTX + R 16 22 008 A	686027	6		
		16A	2 NO 2 NC	12	6	2	CTX + R 16 22 012 A	686044	6		
		16A	2 NO 2 NC	24	12	2	CTX + R 16 22 024 A	686045	6		
		16A	2 NO 2 NC	48	24	2	CTX + R 16 22 048 A	686046	6		
		16A	2 NO 2 NC	230	115	2	CTX + R 16 22 230 A	686048	6		
		16A	2 NO 2 NC	230/60Hz	-	2	CTX + R 16 22 23060	686047	6		
		16A	2 NO 2 NC	240	120	2	CTX + R 16 22 240 A	686049	6		

Terminal identification, see page D.41

Contax R

A

B

C

D

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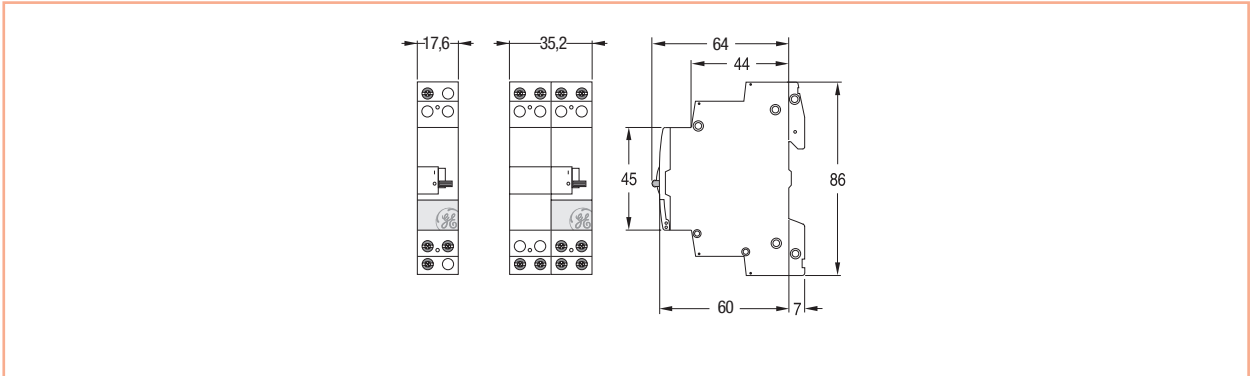
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New

Dimensional drawings

Relays - Contax R



Comfort functions

A

B

C

D

E

F

G

X

