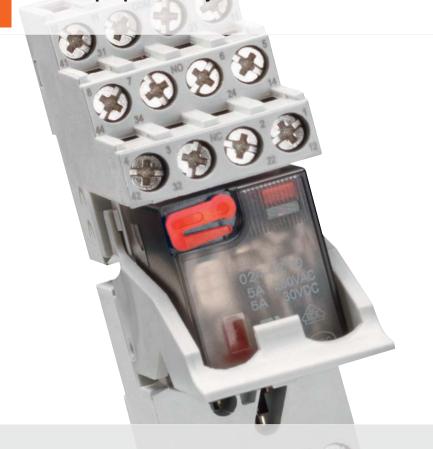
Automation and control 20 General purpose relays





- Electromechanical and SSR (solid state relay) versions
- AC or DC coils
- Sockets with screw, spring or PIN for Printed Circuit Board terminals
- Relays with LED state indicator and mechanical actuator
- Parallel busbars and surge suppressor filters.

Conseed manages release	SEC.	-	PAGI
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HR10

- · Slim electromechanical relay with
- · Socket width 6.2mm
- 1 changeover contact
- Ith rated current 6A
- Sockets with built-in LED
- · Sockets with screw or spring terminals
- · Control voltage from 12 to 230VAC/DC
- 20 poles parallel busbars
- Available version with relay factory assembled on the socket.



Page 20-5

HR30

- · Miniature relay
- Socket width 15.8mm
- 1 or 2 changeover contacts
- Ith rated current:
 - 1 contact: 10A (16A on PCB)
- 2 contacts: 8A
- AC or DC control voltage
- Sockets with screw, spring or pins for PCB terminals
- 8 poles parallel busbars
- Small dimensions
- Can be used for direct mounting on PCB
- · Snap-on surge suppressor filters.



Page 20-7

HR60

- Industrial relay with LED status indicator and mechanical actuator
- Socket width 27mm
- 2 or 4 changeover contacts
- Ith rated current:
- 2 contacts: 7A
- 4 contacts: 5A
- · LED and mechanical status indicator
- · Mechanical test actuator with latch option
- · AC or DC control voltage
- · Sockets with screw or spring terminals
- · Snap-on surge suppressor filters.



Page 20-4

HR20

- . Slim solid state relay (SSR)
- · Socket width 6.2mm
- 1 solid-state (SSR) output
- Output current 2A in AC and 4A in DC
- Sockets with built-in LED
- · Sockets with screw or spring terminals
- Control voltage 24VDC
- 20 poles parallel busbars
- · High switching speed
- · Theoretically infinite electrical life.
- · Zero crossing.



Page 20-6

Page 20-8

HR40

- · Miniature relay in clear enclosure
- Socket width 15.8mm
- 1 or 2 changeover contacts
- Ith rated current:
- 1 contact: 10A (16A on PCB)
- 2 contacts: 10A
- AC or DC control voltage
- Sockets with screw, spring or pins for PCB terminals
- 8 poles parallel busbars

mechanical actuator

• 8-pin and 11-pin industrial relay

· LED and mechanical state indicator

Mechanical test actuator with latch option
 Versions with AC or DC control.

• 2 or 3 changeover contacts

Socket width 38mm

· Ith rated current: 10A

- Clear enclosure for contacts visibility
- Can be used for direct mounting on PCB

Industrial relay with LED status indicator and

Snap-on surge suppressor filters.



Page 20-6

HR50

- Miniature relay with LED status indicator and mechanical actuator
- Socket width 15.8mm
- 1 or 2 changeover contacts
- Ith rated current:
- 1 contact: 10A (16A on PCB)
- 2 contacts: 8A
- LED and mechanical status indicator
- Mechanical test actuator with latch option
- AC or DC control voltage
- Sockets with screw, spring or pins for PCB terminals
- 8 poles parallel busbars
- Can be used for direct mounting on PCB
- Snap-on surge suppressor filters.



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Relays		Code	Contacts	Rated	Control	Sockets	
	D D	HRA10 1C E024	1 C/O	current 6A	voltage 24VAC/DC	Version with relay	
	i.	HRA10 1C E024SO		6A	24VAC/DC	assembled on socket	
		IIIA10 10 L02400	1 0/0	UA	24770/00		
٧S							
SLIM RELAYS	-	HR10 1C E012	1 C/O	6A	12VAC/DC	HD4V C004 HD4V C004Co	
≅ B	10 B	HR10 1C E024	1 C/O	6A	24VAC/DC	HR1X S024 - HR1X S024S ⊙	
SLII		HR10 1C E060	1 C/O	6A	110125VAC/DC ❷	HR1X S110 - HR1X S110SO	
					220240VAC/DC@	HR1X S230 - HR1X S230S ⊙	
		HR20 1A S024	1 SSR	2A (AC)	24VDC	HR1X S024 - HR1X S024S 0	
		HR20 1D S024	1 SSR	4A (DC)	24VDC	M 400	
		HR30 1C D012 HR30 1C D024	1 C/O	16A ❸ 16A ❸	12VDC 24VDC	Max 10A	
		HR30 1C D024	1 C/O	16A ©	48VAC		
တ		HR30 1C A024	1 C/O	16A ③	24VAC		
MINIATURE RELAYS	444	HR30 1C A110	1 C/O	16A ③	110120VAC	99	
E RE	94	HR30 1C A230	1 C/O	16A ❸	230VAC	HR5X S21 Screw terminals. Contact terminals all on upper side.	
E C	0.27	HR30 2C D012	2 C/O	8A	12VDC	Screw terminals. Contact terminals all on upper side.	
LA N	2.00	HR30 2C D024	2 C/O	8A	24VDC	Contact terminals an on upper side.	
Σ	60.	HR30 2C D048	2 C/O	8A	48VDC	(M.R	
		HR30 2C A024	2 C/O	8A	24VAC		
		HR30 2C A110	2 C/O	8A	110120VAC	33 HDEV 000	
		HR30 2C A230 HR40 1C D012	2 C/O 1 C/O	8A 16A ❸	230VAC 12VDC	HR5X S22 Screw terminals.	
RE FER		HR40 1C D012	1 C/O	16A ©	24VDC	- 1	
MINIATURE Relays Clear Enclosure		HR40 2C D012	2 C/O	10A	12VDC	- 333	
LAY		HR40 2C D024	2 C/O	10A	24VDC		
						name .	
		HR50 1C D012	1 C/O	16A ❸	12VDC	HR5X S21S Spring terminals.	
		HR50 1C D024	1 C/O	16A ❸	24VDC	Spring terminals.	
a		HR50 1C D048	1 C/O	16A ❸	48VDC		
H CO		HR50 1C D110 HR50 1C A024	1 C/O	16A ❸ 16A ❸	110VDC 24VAC	27	
MIT WIT		HR50 1C A024	1 C/O	16A ©	110120VAC		
MINIATURE RELAYS WITH LED STATE INDICATOR AND MECHANICAL ACTUATOR		HR50 1C A230	1 C/O	16A ③	230VAC		
REL DIC CAL	0.0	HR50 2C D012	2 C/O	8A	12VDC	HR5X S21P	
REIN		HR50 2C D024	2 C/O	8A	24VDC	HR5X S21P PIN terminals. For Printed Circuit Board.	
ATU ECH		HR50 2C D048	2 C/O	8A	48VDC	Tol Fillited Gircuit Board.	
Z ~ Z		HR50 2C D110	2 C/O	8A	110VDC		
_		HR50 2C A024	2 C/O	8A	24VAC		
		HR50 2C A110 HR50 2C A230	2 C/O 2 C/O	8A 8A	110120VAC 230VAC		
		HR60 2C D012	2 C/O	7A	12VDC		
ш		HR60 2C D024	2 C/O	7A	24VDC	HR6X S21 Screw terminals. Contact terminals	
INDUSTRIAL RELAYS WITH LED STATE Indicator and Mechanical Actuator		HR60 2C D048	2 C/O	7A	48VDC	terminals. terminals. terminals.	
ED S		HR60 2C A012	2 C/O	7A	12VAC	terminals. terminals. Contact terminals	
HAN		HR60 2C A024	2 C/O	7A	24VAC	on upper	
WIT AECI OR		HR60 2C A110	2 C/O	7A	110120VAC	side.	
VYS VD N UAT	Operation	HR60 2C A230 HR60 4C D012	2 C/O 4 C/O	7A 5A	230VAC		
R AI ACT	an a	HR60 4C D012	4 C/O	5A 5A	12VDC 24VDC	HR6X S41 Screw Screw terminals. HR6X S42 HR6X S41S Spring terminals.	
AL F ATO	same of G	HR60 4C D048	4 C/O	5A	48VDC	Screw terminals. Contact terminals	
DIC		HR60 4C A012	4 C/O	5A	12VAC	Contact	
Sna		HR60 4C A024	4 C/O	5A	24VAC	terminals on upper	
Z		HR60 4C A110	4 C/O	5A	110120VAC	side.	
		HR60 4C A230	4 C/O	5A	230VAC		
<u>~</u>		HR70 2C D024	2 C/O	10A	24VDC	8-pin	
IAL ATO		HR70 2C D048	2 C/O	10A	48VDC	9999	
STR IDIC IAT(HR70 2C D110	2 C/O	10A	110VDC 24VAC	HR7X S1 Screw terminals.	
CTU	AND THE REAL PROPERTY.	HR70 2C A024 HR70 2C A110	2 C/O 2 C/O	10A 10A	110120VAC	9 9	
N IN STAT		HR70 2C A230	2 C/O	10A 10A	230VAC	9999	
1-PI ED (NIC		HR70 3C D024	3 C/O	10A	24VDC	11-pin	
H L SH	a la	HR70 3C D048	3 C/O	10A	48VDC	METERS.	
AN WIT	1000	HR70 3C D110	3 C/O	10A	110VDC	HR7X S2	
-PIN AYS IND		HR70 3C A024	3 C/O	10A	24VAC	Screw terminals.	
8-PIN AND 11-PIN INDUSTRIAL RELAYS WITH LED STATE INDICATOR AND MECHANICAL ACTUATOR		HR70 3C A110	3 C/O	10A	110120VAC	*****	
		HR70 3C A230	3 C/O	10A	230VAC		



Code	Retaining clips	Code	Marker tags	Code	Parallel busbars	Code	Surge suppressor filters
	Included	HR1X 30		HR1X 9020 (black)	20 poles		
	in the socket	HR1X 3016 (strip with 16 plates)	recorences 3	HR1X 9120 (red)			
HR3X 88®	4						
HR3X 86⊕					Ocales	Resistor - Capacitor HR6X 77024 624VAC/DC	- fre
		HR5X 30⊕		HR5X 9008 (black)	8 poles	HR6X 77230 110230VAC/D0	
HR5X 88®	4				Land de la constitución de la co	Diode + LED HR6X 78024 624VDC	
HR5X 86®							
HR5X 87⊕	F						
HR6X 88	Н	HR6X 30					
-		HR5X 30 (only for sockets with spring termi	nals)				
HR7X 87		 Final S in co Voltage dep Rated curre For sockets Only mount Not suitable 	ide indicates spring termi endent on selected relay nt if the relay is soldered with screw terminals. ing on socket HR5X S21f for HR5X S21P socket.	nals. socket; rated insulation vol directly onto the board; wil o	tage only for relay 60VD th socket the maximum	C. current is 10A.	

HR20 1D S024

24VDC

1 SSR

Output

3...28VDC

10

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Slim relays



HRA10...





HR20...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.
Slim electromecha	anical relays	assembled on t	the socket		
HRA10 1C E024	24VAC/DC	1 C/O	6	Screw terminals	10
HRA10 1C E024S	24VAC/DC	1 C/O	6	Spring terminals	10
Slim electromechanical relays.					
HR10 1C E012	12VDC	1 C/O	6	12VAC/DC control when on HR1XS024 or HR1XS024S socket	20
HR10 1C E024	24VDC	1 C/O	6	24VAC/DC control when on HR1XS024 or HR1XS024S socket	20
HR10 1C E060	60VDC	1 C/O	6	110125VAC/DC control when on HR1XS110 or HR1XS110S socket. 220240VAC/DC control when on HR1XS230 or HR1XS230S socket	20
Slim SSR (solid st	tate relay) rel	ays.			
HR20 1A S024	24VDC	1 SSR	2	Output 24280VAC	10

General characteristics

Slim-type relays have a reduced width that permits considerable optimisation of space. All sockets are equipped with supply indicator LED and retain/release clips. The availability of electromechanical and solid-state (SSR) versions permits the installation of the most technically suitable solution in accordance with system requirements. The socket terminals can be screw or spring type.
The parallel busbars make for quick wiring.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12, 24, 60VDC
- Relay control voltage + socket: 12, 24, 110...125, 220...240VAC/DC
- Max controllable power in AC-1: 1500W
- Max controllable power in AC-15: 360VA.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC, VDE for electromechanical relays HR10..., cURus, TÜV for SSR

Compliant with standards: IEC/EN 61810 for electromechanical relays, IEC/EN 62314 for SSR.

Sockets



HR1X S... HR1X S...S

Order code	Control voltage	Terminals	Description	Qty per pkg
	AC/DC			no.
Sockets for relays	i.			
HR1X S024	1224V	Screw	Use with relay HR101CE012 HR101CE024 and HR20	10
HR1X S110	110125V	Screw	Use with relay HR101CE060	10
HR1X S230	220240V	Screw	Use with relay HR101CE060	10
HR1X S024S	1224V	Spring	Use with relay HR101CE012 HR101CE024 and HR20	10
HR1X S110S	110125V	Spring	Use with relay HR101CE060	10
HR1X S230S	220240V	Spring	Use with relay HR101CE060	10

General characteristics

HR1X.. sockets are equipped with supply indicator LED and retain/release clips. The socket terminals can be screw or spring type. Parallel busbars can be fitted to the sockets, for quick wiring. These busbars plug in, on both the screw and spring sockets, leaving the cable entry terminals free.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12, 24, 60VDC
- Relay control voltage + socket: 12, 24, 110...125, 220...240VAC/DC
- Green indication LED
- Fitting on DIN rail.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC, VDE for electromechanical relay HR10..., cURus, TÜV for SSR

Compliant with standards: IEC/EN 61810 for electromechanical relays, IEC/EN 62314 for SSR.

Accessories







HR1X 9020



HR1X 9120

Order code	Description	Qty per pkg
		no.
HR1X 30	Marker tags	100
HR1X 3016	Marker tags - strip with 16 plates	20
HR1X 9020	20-pole parallel busbar - black	10
HR1X 9120	20-pole parallel busbar - red	10

new



20

Miniature relays





Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.
Miniature relays.					
HR30 1C D012	12VDC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C D024	24VDC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C D048	48VDC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A024	24VAC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A110	110/120VAC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A230	230VAC	1 C/O	16	Fitting on socket HR5XS2 (max 10A)	20
HR30 2C D012	12VDC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C D024	24VDC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C D048	48VDC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C A024	24VAC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C A110	110/120VAC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C A230	230VAC	2 C/O	8	Fitting on socket HR5XS2	20

General characteristics

Miniature relays have compact dimensions but high functional performance. It's the ideal device for those looking for a cost-effective solution without compromising performance.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12, 24 and 48VDC -24, 110/120 and 230VAC, 50/60Hz
- Max controllable power in AC-1 (1C/2C): 4000/2000W
 Max controllable power in AC-15 (1C/2C): 300/150VA
- Maximum current (1C/2C): 16A/10A.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC, VDE (VDE except for HR30 1C A...). Compliant with standards: IEC/EN 61810.

Sockets



HR5X S21



HR5X S22

Order code	Description	Qty			
		per			
		no.			
Sockets for relays (supplied without retain/release clip). Terminal layout see page 20-10.					
HR5X S21 Screw terminals, contact terminals all on upper side		10			
HR5X S22	Screw terminals. Fitting on DIN rail or with screws	10			
HR5X S21S	Spring terminals. Fitting on DIN rail or with screws	10			
HR5X S21P	PIN terminals for Printed Circuit Board	40			

0 1 1 5 11

General characteristics

HR5X... series sockets can have screw terminals or spring terminals for quick wiring. Screw terminals are available in 2 versions: with contact terminals separated from the coil terminals or with NC contact terminals near the coil terminals. Surge suppressor filters, parallel busbars and plates for writing can be snap-fitted to the sockets.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC (cURus only for PCB socket).

Compliant with standards: IEC/EN 61810.

Accessories



HR5X S21S



HR5X S21P









Order code Description Qty per pkg no. HR3X 88 Retain/release clip. Not suitable for HR5XS21P socket 20	
	per
UP3V 00 Detain/release alia Net quitable for LIDEVCO1D scalest 00	no.
HR3X 88 Retain/release clip. Not suitable for HR5XS21P socket 20	R5XS21P socket 20
HR3X 86 Retaining clip. Only mounting on socket HR5XS21P 10	et HR5XS21P 10
HR5X 30 Marker tags 100	100
HR6X 78 024 Plug-in surge suppressor filters. 624VDC with LED 10	VDC with LED 10
HR6X 77 024 Plug-in surge suppressor filters. 624VAC/DC (RC) 10	IVAC/DC (RC) 10
HR6X 77 230 Plug-in surge suppressor filters. 110230VAC/DC (RC) 10	230VAC/DC (RC) 10
HR5X 9008 8-pole parallel busbar - black - for sockets with screw terminals 10	kets with 10

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Miniature relays clear Order code Control Contacts Rated Description enclosure





	Order code	voltage	Contacts	current	Description	per pkg
				[A]		no.
Miniature relays clear enclosure.						
	HR40 1C D012	12VDC	1 C/O	16	Mounting on	10
	HR40 1C D024	24VDC	1 C/O	16	HR5XS2 socket (max 10A)	10
	HR40 2C D012	12VDC	2 C/O	10	Mounting on	10
	HR40 2C D024	24\/DC	2 C/O	10	HR5XS2 socket	10

Miniature relays with **LED** state indicator and mechanical actuator



HR50...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.
Miniature relays	with LED state	indicator ar	nd mechani	cal actuator.	
HR50 1C D012	12VDC	1 C/O	16	Mounting on	10
HR50 1C D024	24VDC	1 C/O	16	HR5XS2 socket (max 10A)	10
HR50 1C D048	48VDC	1 C/O	16		10
HR50 1C D110	110VDC	1 C/O	16		10
HR50 1C A024	24VAC	1 C/O	16		10
HR50 1C A110	110/120VAC	1 C/O	16		10
HR50 1C A230	230VAC	1 C/O	16		10
HR50 2C D012	12VDC	2 C/O	8	Mounting on	10
HR50 2C D024	24VDC	2 C/O	8	HR5XS2 socket	10
HR50 2C D048	48VDC	2 C/O	8		10
HR50 2C D0110	110VDC	2 C/O	8		10
HR50 2C A024	24VAC	2 C/O	8		10
HR50 2C A110	110/120VAC	2 C/O	8		10
HR50 2C A230	230VAC	2 C/O	8		10

General characteristics

Otr

HR40... and HR50.. miniature relays have reduced dimensions and, in addition to the high electrical performance. HR40... has a clear enclosure that allow contacts visibility for wear and tear check. HR50... is equipped with the following functions: LED to indicate voltage on the coil, mechanical contact state indicator and mechanical test actuator. The mechanical actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

Operational characteristics

- Rated insulation voltage: 250V (400V with pollution
- Relay control voltage:
 - HR40... and HR50...: 12 and 24VDC (48VDC for HR50... only)
- HR50...: 24, 110/120 and 230VAC 50/60Hz
- Max AC-1 controllable power (1C/2C):
 - HR40...: 3840/2500W
 HR50...: 4000/2000W
- Max AC-15controllable power: 150VA
- Maximum current (1C/2C):
- HR40...: 16/10A
 HR50...: 16A/8A

Certifications and compliance

Certifications obtained: HR40 1C... cURus, VDE; HR40 2C... cURus; HR50 1C... and HR50 2C... cURus, CSA, EAC, VDE.

Compliant with standards: IEC/EN 61810.

Sockets







HR5X S22





HR5X S21S

HR5X S21P

Order code	Description	Qty per pkg				
		no.				
Ocaleta (constant formalis de l'ille est estain (estant elle)						

Sockets for relays (supplied without retain/release clip). Terminal layout see page 20-10.

HR5X S21	Screw terminals, contact terminals all on upper side. Fitting on DIN rail or with screws	10
HR5X S22	Screw terminals. Fitting on DIN rail or with screws	10
HR5X S21S	Spring terminals. Fitting on DIN rail or with screws	10
HR5X S21P	PIN terminals for Printed Circuit Board	40

General characteristics

HR5X... series sockets can have screw terminals or spring terminals for quick wiring. A socket with pins for PCB is also available. Screw terminals are available in 2 versions: with contact terminals separated from the coil terminals or with NC contact terminals near the coil terminals. Surge suppressor filters, parallel busbars and plates for writing can be snap-fitted to the sockets intended for Din rail mounting.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC (cURus only for PCB socket).

Compliant with standards: IEC/EN 61810.

Accessories





HR5X 88







HR5X 30



Order code	Description	Qty per pkg
		no.
HR5X 86	Metal retaining clip. Only mounting on HR5XS21P socket	10
HR5X 87	Metal retaining clip. Not suitable for HR5XS21P socket	20
HR5X 88	Plastic retaining clip. Not suitable for HR5XS21P socket	10
HR5X 30	Marker tags	100
HR6X 78 024	Plug-in surge suppressor filters. 624VDC with LED	10
HR6X 77 024	Plug-in surge suppressor filters. 624VAC/DC (RC)	10
HR6X 77 230	Plug-in surge suppressor filters. 110230VAC/DC (RC)	10
HR5X 9008	8-pole parallel busbar - black	10

new



Industrial relays with LED state indicator and mechanical actuator



HR60...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.
Industrial relays v	vith LED state	indicator ar	nd mechanic	cal actuator.	
HR60 2C D012	12VDC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C D024	24VDC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C D048	48VDC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A012	12VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A024	24VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A110	110/120VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A230	230VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 4C D012	12VDC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C D024	24VDC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C D048	48VDC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A012	12VAC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A024	24VAC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A110	110/120VAC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A230	230VAC	4 C/O	5	Fitting on socket HR6XS4	10

General characteristics

HR60... type industrial relays are available in 2/4changeover-contact versions. They are equipped with LEDs that indicate control voltage, a mechanical contact state indicator and a mechanical actuator. The actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
 Relay control voltage: 12, 24 or 48VDC 12, 24, 110/120 and 230VAC, 50/60Hz
- Max controllable current in AC-1 (2C/4C): 7/5A
- Maximum current (2C/4C): 7A/5A.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC, VDE. Compliant with standards: IEC/EN 61810.

Sockets





HR6X S21

HR6X S41



HR6X S41S

Order code	Description	Qty per pkg
		no.

Sockets for relays (supplied without retein/release clip) for fitting on DIN rail or with screws.

Terminal layout see page 20-10 and 11.

For relays with 2 changeover contacts.

HR6X S21 Screw terminals, contact terminals all on upper side		
HR6X S22	Screw terminals	10
HR6X S21S Spring terminals		10
For relays with 4 of	changeover contacts.	
HR6X S41 Screw terminals, contact terminals all on upper side		10
HR6X S42 Screw terminals		10
HR6X S41S Spring terminals		10

General characteristics

HR6X.. series sockets have screw terminals and are supplied in two versions for relays with 2 or 4 contacts. Surge suppressor filters and plates for writing can be plugged in to the sockets.

They can be fixed on DIN rails or with screws.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10 and 11.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.

Accessories



HR6X 88



HR5X 30



Order code	Description	Qty per pkg
		no.
HR6X 88	Retain/release clip	20
HR6X 30	Marker tag for sockets with screw terminals	100
HR5X 30	Marker tag for sockets with spring terminals	100
HR6X 78 024	Plug-in surge suppressor filters. 624VDC with LED	10
HR6X 77 024	Plug-in surge suppressor filters. 624VAC/DC (RC)	10
HR6X 77 230	Plug-in surge suppressor filters. 110230VAC/DC (RC)	10

20

+ 370 60 823 097 + 370 64 924 081 info@abn-a.com

8-pin and 11-pin industrial relays with **LED** state indicator and mechanical actuator

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.

Industrial relays with LED state indicator and mechanical actuator. 8-pin type

HR70 2C D024	24VDC	2 C/O	10	Fitting on socket HR7XS1	10
HR70 2C D048	48VDC	2 C/O	10	Fitting on socket HR7XS1	10
HR70 2C D110	110VDC	2 C/O	10	Fitting on socket HR7XS1	10
HR70 2C A024	24VAC	2 C/O	10	Fitting on socket HR7XS1	10
HR70 2C A110	110/120VAC	2 C/O	10	Fitting on socket HR7XS1	10
HR70 2C A230	230VAC	2 C/O	10	Fitting on socket HR7XS1	10

Industrial relays with LED state indicator and mechanical actuator.



i i-piii type.					
HR70 3C D024	24VDC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C D048	48VDC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C D110	110VDC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A024	24VAC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A110	110/120VAC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A230	230VAC	3 C/O	10	Fitting on socket HR7XS2	10

General characteristics

HR70... type industrial relays are available in 2/3changeover-contact versions. They are equipped with LEDs that indicate control voltage, mechanical contact state indicator and mechanical actuator. The actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

HR70... has high electrical endurance performance and

lends itself to the most heavy-duty applications.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 24 and 48VDC- 24, 110/120 and 230VAC, 50/60Hz
- Maximum current: 10A.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN 61810.

Sockets

HR70...



HR7X S1



HR7X S2

Order code	Description	Qty per pkg
		no.

Sockets for relays (supplied without retaing clip), for fitting on DIN rail or

Terminal layout see page 20-11.

HR7X S1	8-pin for HR70 2C Screw terminals	10
HR7X S2	11-pin for HR70 3C Screw terminals	10

General characteristics

HR7X.. series sockets have screw terminals and are supplied in two versions for relays with 2 or 3 contacts (8-pin - 11-pin).

They can be fixed on DIN rails or with screws.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN 61810.

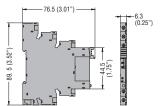
Accessories



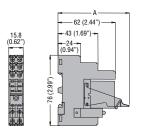
HR7X 87

Order code	Description	Qty per pkg
		no.
HR7X 87	Metal retaining clip	20

HRA10... - HR10... - HR20 with socket HR1XS...

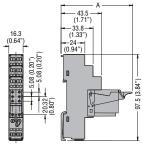


HR30... - HR40... - HR50... with socket HR5XS21



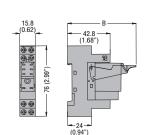
A: 64mm (2.52") with HR3X88 75mm (2.95") with XR5X88

HR30... - HR40... - HR50... with socket HR5XS21S



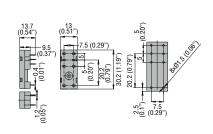
A: 64mm (2.52") with HR3X88 75mm (2.95") with XR5X88

HR30... - HR40... - HR50... with socket HR5XS22

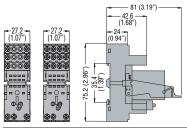


B: 57.5mm (2.26") with HR3X88 68mm (2.68) with XR5X88

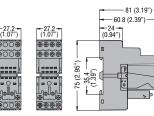
HR5X S21P



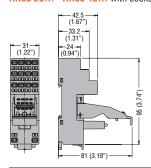
HR60... with socket HR6XS21 - HR6XS41



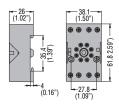
HR60... with socket HR6XS22 - HR6XS42



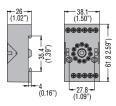
HR60 2C... - HR60 4C... with socket HR6XS21S - HR6XS41S



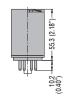
HR7XS1



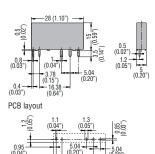
HR7XS2



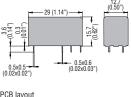
HR70 2C... - HX70 3C...



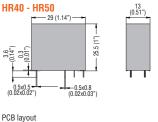
HR10 - HR20



HR30



PCB layout 7.56 – (0.30") 8xØ1.3-(8xØ0.05"



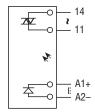
Wiring diagrams



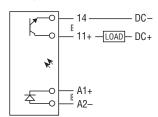




HRA201A...



HRA201D...



22 (12)

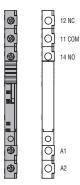
21 (1)

24 (14)

(A2) (A1) COIL

COM

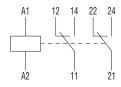
HR1XS...



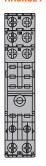
HR301C...

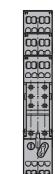


HR302C...

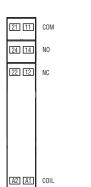


HR5XS21

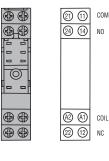




HR5XS21S



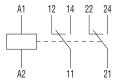
HR5XS22

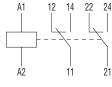


HR401C... - HR501C...

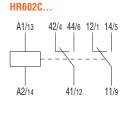


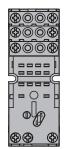
HR402C... - HR502C...

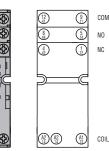




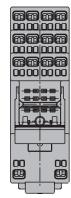
HR6XS21

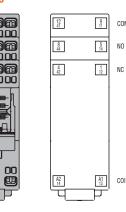




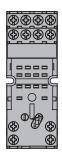


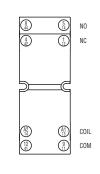
HR6XS21S

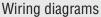




HR6XS22





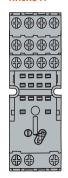


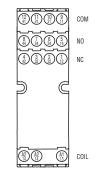


HR604C...

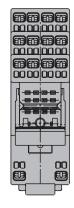


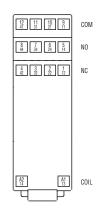
HR6XS41



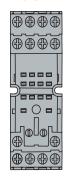


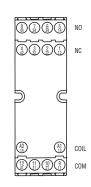
HR6XS41S



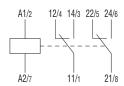


HR6XS42

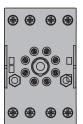


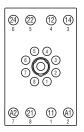


HR702C...

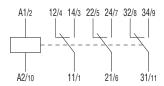




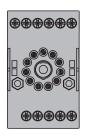


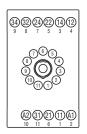


HR703C...



HR7XS2





General purpose relaysTechnical characteristics

UAB "Eibienos automatika" + 370 60 823 097 + 370 64 924 081 info@abn-a.com

Туре			HRA10 HR10	HR20 1AS024	HR20 1DS024	HR30 1C	HR30 2C	
CHARACTERISTICS OF THE CONTACTS				·	<u> </u>			
Contact configuration			1 C/O	1 static	1 static	1 C/O	2 C/O	T
Rated insulation voltage Ui		VAC/DC	250	2500 (input/output)	2500 (input/output)	250	250	
Rated impulse withstand voltage Uimp		kV	4	_	_	6	6	
Conventional free air thermal current Ith		Α	6	2	4	16 2	8	
Maximum instantaneous current		Α	20 (500ms)	80 (10ms)	48 (10ms)	60❶	200	
Rated operating voltage AC1		VA	1500	•	•	4000	2000	
Rated operating voltage AC15 (230VAC)		VA	360	4	6	300❶	150❶	
Single-phase motor control (230VAC)		kW	0.186	4	6	0.4	0.2	
Rated operating voltage DC1: 30/110/220V		Α	6 / 0.2 / 0.12	4	6	12 / 0.3 / 0.1	8 / 0.3 / 0.1	
Minimum switching load		V / mA	5 / 100	24 / 0.1	3 / 0.02	5 / 100		
Contact impedance		mΩ	100	-	-	100		
Contact material			Ag/Ni	-	-	AgSnO2		
Max socket terminal tightening torque		Nm		0.5		0		
Socket screw tightening tool (cross / flat blade)			Phillips 0 / 3.5mm			Phillips 1 / 4.5mm ●		
Wire section on sockets with screw terminals		mm²		0.51.5		0.52.5		
(minmax)		AWG		2016		20.	14	
OPERATING TIMES								-
Closing		ms	≤8	10	0.3	10		
Opening		ms	≤4	10	0.3		5	
ENDURANCE								
Mechanical		Cycles	10,000,000 Theoretically infinite			10,000,000		
Electrical with load AC1		Cycles	30,000❶	Theoretic	ally infinite	50,0	000	
COIL CHARACTERISTICS								
Average coil consumption AC (50/60Hz) at 20°C		VA	-	_	_	0.9		
Average coil consumption DC at 20°C		W	0.2	-	-	0.45		
Operating range	closing	(% Un)	≥75	80120	80120	70110 AC	75110 DC	
	pening	(% Un)	≥5			2055 AC/ 1030 DC		
Maximum cycle frequency		cycles/h	10,000	>100,000	>100,000	3,6	600	
AMBIENT CONDITIONS								
Operating temperature		°C	-40+70 -30+80			-40+85		
Storage temperature		°C	-40+80 -30+100			-40.	+85	
Fitting position			Any					
OTHER CHARACTERISTICS								
Indicator LED				Yes (on the socket)		No		
Mechanical contact position indicator				No		N	lo	
Mechanical test actuator			No			No		
Socket fixing				On 35mm DIN rail		On 35mm DIN ra	il and with screws	

NO contact.
Maximum socket current of 10A.
2.5mm flat blade for versions with spring terminals.
2A output 24...280VAC.
4A output 3...28VDC.

General purpose relaysTechnical characteristics



		T				T	I	
HR40 1C	HR40 2C	HR50 1C	HR50 2C	HR60 2C	HR60 4C	HR70 2C	HR70 3C	
	2.0/2	1 0.0	0.070	2010	1	0.070	0.0/5	
1 C/O	2 C/O	1 C/O	2 C/O	2 C/O	4 C/O	2 C/O	3 C/O	
	250 4 5		250 6		500 4		250 6	
16❷	10	16❷	8	7	5	10	10	
60	26	200	100	_	-	-	_	
4000	2500	4000	2000	1750	1250	2500	2500	
500	400	150❶	150❶	150❶	150 ⊙	500	500	
0.37	0.3	0.1	-	0.37	0.37	1.2	1.2	
10 / 0.3 / 0.12	8 / 0.3 / 0.12	12 / 0.3 / 0.1	8 / 0.3 / 0.1	12 / 0.3 / 0.1	8 / 0.3 / 0.1	10/-/-	10/-/-	
 5 /	5 / 100		5 / 100		5 / 100		5 / 100	
10	100		100		100		100	
AgS	AgSn02		Ag/Ni		Ag/Ni		Ag/Ni	
	0.6		0.6		0.6		0.6	
Phillips 1	Phillips 1 / 4.5mm ❸		Phillips 1 / 4.5mm ❸		Phillips 1 / 4.5mm		Phillips 1 / 4.5mm	
0.5.	0.52.5		0.52.5		0.52.5		0.52.5	
20.	2014		2014		2014		2014	
<	< 15		< 15		< 25		< 30	
	< 5		<15		< 25		< 30	
l								
10.00	10,000,000		10,000,000		20,000,000		5,000,000	
	100,000		20,000❶	100,000		100,000		
1 2 2 7		50,000❶			,		,	
_	_		1	1	.7		3	
0.7			0.4		1.1		1.5	
75110			70110 AC / 75110 DC		70110 AC / 75110 DC		70110 AC / 75110 DC	
1030			2055 AC / 1030 DC		2055 AC / 1030 DC		2055 AC / 1030 DC	
3,600 3,600		3,600		3,600		3,600		
-,	-,							
-40	-40+85		-40+85		-40+70		-40+55	
-40+85		-40+85		-40+80		-40+70		
10.		10.		Any		10.		
				,				
l N	No		Yes		Yes		Yes	
	No		Yes		Yes		Yes	
	NO NO		Yes		Yes		Yes	
	· · · · · · · · · · · · · · · · · · ·						On 35mm DIN rail and with screws	
 On 35mm DIN rail and with screws		On 35mm DIN rail and with screws		On 35mm DIN rail and with screws		וווו אווע אוווע אווע אווע אווע אווע אוו		