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LZX/LZS Plug-In Relays
Complete devices and single modules

LZX/LZS plug-in relays are available either as complete devices or as individual modules. The individual modules can then be assembled or used as spare parts. This range is subdivided into three designs: LZX/LZS:RT, LZX/LZS:PT and LZX/LZS:MT.

Your advantages:

- All designs with tried-and-tested screw-terminals or push in spring-loaded terminals
- Wiring without tools and vibration-proof connection due to innovative push-in spring-loaded terminals
- Socket with logical separation for ease of wiring
- Tested AC-15 and DC-13 switching capacity
- Available coil voltages: 24 V DC, 24 V AC, 115 V AC, 230 V AC
- Hard-gold-plated contacts for optimum interaction with electronic controls

Applications:

- As coupling relay to couple inputs and outputs for electronic controls
- Multiplying contacts
- Switching small loads
- As measured value changeover switch



Engineering information:

The lever of the LZX:PT relays does not feature a latching mechanism. If the level is pressed further until a movement of 90° is reached, two small lugs break off and the test lever can be set to latching.

When using LZX relays with voltages of 60 Hz AC, the lower response value must be increased by 10% as the power loss slightly decreases.

Switching capacity of the plug-in relays	AC-15, 230 V	DC-13, 24 V
LZX:RT 1 CO (changeover contact)	6 A	2 A
LZX:RT 2 CO	3 A	2 A
LZX:PT 2 CO	5 A	5 A
LZX:PT 3 CO	5 A	5 A
LZX:PT 4 CO	4 A	5 A
LZX:MT 3 CO	5 A	2 A

Designs

LZX/LZS:RT
1 or 2 CO contacts
AC-1: 16/8 A
width: 15.5 mm



LZX/LZS:PT
2, 3 or 4 CO contacts
AC-1: 12/10/6 A
width: 28 mm



LZX/LZS:MT
3 CO contacts
AC-1: 10 A
width: 38 mm



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Relay couplers – LZS complete modules (socket, relay, hold/eject clip, LED module and inscription plate)

Design	Rated control supply voltage U_S	Contacts	Width in mm	Order No.
Complete devices, 11- and 14-pole, PT range				
Complete device with plug-in socket (screw terminal, standard) for snapping onto 35 mm mounting rail, consisting of: plug-in relay, plug-in socket standard with screw terminal, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	3 CO	28	LZS:PT3A5L24
	24 V AC			LZS:PT3A5R24
	115 V AC			LZS:PT3A5S15
	230 V AC			LZS:PT3A5T30
	24 V DC	4 CO	28	LZS:PT5A5L24
	24 V AC			LZS:PT5A5R24
	115 V AC			LZS:PT5A5S15
	230 V AC			LZS:PT5A5T30
Complete device with plug-in socket (screw terminal, logical separation) for snapping onto 35 mm mounting rail, consisting of: plug-in relay, plug-in socket with screw terminal and logical separation, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	4 CO	28	LZS:PT5B5L24
	24 V AC			LZS:PT5B5R24
	115 V AC			LZS:PT5B5S15
	230 V AC			LZS:PT5B5T30
Complete device with plug-in socket (spring-loaded terminal, logical separation) NEW! for snapping onto 35 mm mounting rail, consisting of: plug-in relay, plug-in socket with spring-loaded terminal and logical separation, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	4 CO	28	LZS:PT5D5L24
	24 V AC			LZS:PT5D5R24
	115 V AC			LZS:PT5D5S15
	230 V AC			LZS:PT5D5T30
Complete devices, 8-pole, 5 mm pinning, RT range				
Complete device with plug-in socket (screw terminal, standard) for snapping onto 35 mm mounting rail, consisting of: print relay, plug-in socket standard with screw terminal, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	1 CO	15.5	LZS:RT3A4L24
	24 V DC	2 CO		LZS:RT4A4L24
	230 V AC	1 CO		LZS:RT3A4T30
	230 V AC	2 CO		LZS:RT4A4T30
	24 V AC	1 CO	15.5	LZS:RT3A4R24
	24 V AC	2 CO		LZS:RT4A4R24
	115 V AC	1 CO		LZS:RT3A4S15
	115 V AC	2 CO		LZS:RT4A4S15
Complete device with plug-in socket (screw terminal, logical separation) for snapping onto 35 mm mounting rail, consisting of: print relay with safe isolation, plug-in socket with screw terminal and logical separation, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	1 CO	15.5	LZS:RT3B4L24
	24 V DC	2 CO		LZS:RT4B4L24
	230 V AC	1 CO		LZS:RT3B4T30
	230 V AC	2 CO		LZS:RT4B4T30
	24 V AC	1 CO	15.5	LZS:RT3B4R24
	24 V AC	2 CO		LZS:RT4B4R24
	115 V AC	1 CO		LZS:RT3B4S15
	115 V AC	2 CO		LZS:RT4B4S15
Complete device with plug-in socket (spring-loaded terminal, logical separation) NEW! for snapping onto 35 mm mounting rail, consisting of: print relay, plug-in socket with spring-loaded terminal and logical separation, LED module (24 V DC LED module with free-wheeling diode, AC without free-wheeling diode), hold/eject clip and inscription plate	24 V DC	1 CO	15.5	LZS:RT3D4L24
	24 V DC	2 CO		LZS:RT4D4L24
	230 V AC	1 CO		LZS:RT3D4T30
	230 V AC	2 CO		LZS:RT4D4T30
	24 V AC	1 CO	15.5	LZS:RT3D4R24
	24 V AC	2 CO		LZS:RT4D4R24
	115 V AC	1 CO		LZS:RT3D4S15
	115 V AC	2 CO		LZS:RT4D4S15

Logical separation:
The connections of the contacts and the connections of the coil are arranged on different sides, e.g. contacts at the top and coils at the bottom. This allows for a clearer wiring arrangement. The logical separation is not necessarily a safe isolation.

Safe isolation:
The safe isolation is the isolation which prevents the passover of a circuit's voltage to another circuit with sufficient safety (DIN VDE 106 Part 101).

Relay couplers – single modules for self-assembly

RT range

Print relays

Control supply voltage	Contacts	LED	Free-wheeling diode	Logical separation	Hard-gold-plating	Order No.
24 V DC	1 CO	–	–	–	–	LZX:RT314024
24 V DC	2 CO	–	–	–	–	LZX:RT424024
24 V AC	1 CO	–	–	–	–	LZX:RT314524
24 V AC	2 CO	–	–	–	–	LZX:RT424524
115 V AC	1 CO	–	–	–	–	LZX:RT314615
115 V AC	2 CO	–	–	–	–	LZX:RT424615
230 V AC	1 CO	–	–	–	–	LZX:RT314730
230 V AC	2 CO	–	–	–	–	LZX:RT424730
24 V DC	1 CO	–	–	–	yes	LZX:RT315024
24 V AC	1 CO	–	–	–	yes	LZX:RT315524
230 V AC	1 CO	–	–	–	yes	LZX:RT315730

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Accessories, suitable for 1 and 2 CO		
Plug-in socket with screw terminal for snapping onto mounting rail	no logical separation (standard)	LZS:RT78725
	with logical separation	LZS:RT78726
NEW! Plug-in socket with spring-loaded terminal for snapping onto mounting rail	with logical separation	LZS:RT7872P
Hold/eject clip for screw-terminal and spring-loaded terminal socket	–	LZS:RT17016
Inscription plate		LZS:RT17040

PT range

Plug-in relays						
Control supply voltage	Contacts	LED	Free-wheeling diode	Hard-gold-plating	Test lever	Order No.
24 V DC	2 CO	–	–	–	yes	LZX:PT270024
24 V DC	3 CO	–	–	–	yes	LZX:PT370024
24 V DC	4 CO	–	–	–	yes	LZX:PT570024
24 V DC	4 W	–	–	–	–	LZX:PT520024
24 V DC	4 CO	–	–	yes	yes	LZX:PT580024
24 V AC	2 CO	–	–	–	yes	LZX:PT270524
24 V AC	3 CO	–	–	–	yes	LZX:PT370524
24 V AC	4 CO	–	–	–	yes	LZX:PT570524
115 V AC	2 CO	–	–	–	yes	LZX:PT270615
115 V AC	3 CO	–	–	–	yes	LZX:PT370615
115 V AC	4 CO	–	–	–	yes	LZX:PT570615
230 V AC	2 CO	–	–	–	yes	LZX:PT270730
230 V AC	3 CO	–	–	–	yes	LZX:PT370730
230 V AC	4 CO	–	–	–	yes	LZX:PT570730
230 V AC	4 CO	–	–	yes	yes	LZX:PT580730
230 V AC	4 CO	–	–	–	–	LZX:PT520730

Accessories			
Plug-in socket with screw terminal for snapping onto mounting rail	2 CO	no logical separation	LZS:PT78720
	3 CO		LZS:PT78730
	4 CO		LZS:PT78740
	2 CO	with logical separation	LZS:PT78722
	4 CO		LZS:PT78742
NEW! Plug-in socket with spring-loaded terminal for snapping onto mounting rail	2 CO	with logical separation	LZS:PT7872P
	4 CO		LZS:PT7874P
Hold/eject clip for screw-terminal and spring-loaded terminal socket	2/3/4 CO	with logical separation	LZS:PT17021
Hold/eject clip for screw-terminal socket	2/3/4 CO	no logical separation	LZS:PT17024
Inscription plate			LZS:PT17040

Accessories for the RT and PT range				
LED module red	Control supply voltage	24 V DC	Free-wheeling diode	LZS:PTML0024
		24 V AC/DC	–	LZS:PTML0524
		110–230 V AC	–	LZS:PTML0730
LED module green		24 V DC	Free-wheeling diode	LZS:PTMG0024
		24 V AC/DC	–	LZS:PTMG0524
		110–230 V AC	–	LZS:PTMG0730
Free-wheeling diode		6–230 V DC	Free-wheeling diode	LZS:PTMT00A0
RC element		24–48 V AC	–	LZS:PTMU0524
		110–230 V AC	–	LZS:PTMU0730

MT Range

Plug-in relays				
Control supply voltage	Contacts	LED	Free-wheeling diode	Order No.
24 V DC	3 CO	–	–	LZX:MT321024
24 V DC	3 CO	yes	–	LZX:MT323024
24 V AC	3 CO	–	–	LZX:MT326024
24 V AC	3 CO	yes	–	LZX:MT328024
115 V AC	3 CO	–	–	LZX:MT326115
115 V AC	3 CO	yes	–	LZX:MT328115
230 V AC	3 CO	–	–	LZX:MT326230
230 V AC	3 CO	yes	–	LZX:MT328230

Accessories	
Plug-in socket with screw terminal for snapping onto mounting rail, 11-pole	LZS:MT78750
Hold clip	LZS:MT28800

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