# SIEMENS

### Data sheet

## LZS:RT4A4L24



Plug-in relay complete unit 2 W, 24 V DC LED module red Standard plug-in socket screw terminal

product designation     SittO3       product designation     L2S       General technical data     display version LED       isplay version LED     Yes       consumed active power     0.4 W       percental drop-out voltage related to the input voltage     10 %       percental drop-out voltage related to the input voltage     10 %       percental drop-out voltage related to the input voltage     10 %       operating frequency without load     36 000 1/h       operating frequency without load     360 00 1/h       operating frequency without load     360 00 1/h       operating frequency without load     360 00 1/h       operating frequency without     0.8       design of the switching function     changeover switch       design of the switching cycles) typical     30 000 000       electrical endurance (switching cycles) typical     30 000 000       electrical endurance (switching cycles) typical     30 000 000       thermal current     8 A       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     05/01/2012       Control supply voltage at DC     0       • rated value     0.9       • tull-scale value     1.4       closing delay     4 DC       • at DC     8 ms       opening delay     4 DC </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
product type designation     LZS       General technical data       display version LED     Yes       consumed active power     0.4 W       percental drop-out voltage related to the input voltage     10 %       protection class IP     IP20       operating frequency with load     36 00 1/h       operating frequency with load     36 00 1/h       esign of the switching function     changeover switch       design of the switching function positively driven     No       mechanical service life (switching cycles) typical     30 000 000       electrical endurance (switching cycles) typical     000 000       electrical endurance (switching cycles) typical     8 A       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     00/01/2012       Control active Control     control supply voltage at DC       • initial value     0.9       • initial value     0.9       • initial value     0.9       • at DC     8 ms       operating mechanism     poled       product propent protection     6 ms       disgl of the snap-on socket base     Standard socket       Short-circuit protection     fuse gG: 10 A       Auxiliary sinch required     ApNi 90/10		
Genoral tocknical data       Description         display version LED       Yes         consumed active power       0.4 W         percental drop-out voltage related to the input voltage       10 %         protection class IP       IP20         operating frequency without load       36000 1/h         operating frequency without load       36001 /h         switching behavior       monostable         design of the switching function positively driven       No         mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) typical       30 000 000         electrical endurance (switching cycles) typical       8A         thermal current       8A         reference code according to IEC 81346-2       K         Substance Prohibitance (Dote)       0501/2012         Control circuit/ Control       24 V         operating range factor control supply voltage rated       24 V         operating range factor control supply voltage rated       9         value at DC       6 ms         opening delay       6         • at DC       8 ms         opening delay       6         • at DC       6         design of the ralay operating mechanism       poled		
display version LED     Yes       consumed active power     0.4 W       percental drop-out voltage related to the input voltage     10 %       protection class IP     IP20       operating frequency without load     36 000 1/h       operating frequency without load     360 01 /h       switching behavior     monostable       design of the switching function     changeover switch       design of the switching function positively driven     No       mechanical service life (switching cycles) typical     30 000 000       electrical endurance (switching cycles) typical     30 000 000       electrical endurance (switching cycles) typical     10 0 000       230 V typical     8 A       thermal current     8 A       reference code according to IEC 81346-2     K       Substance Pohibitance (Date)     05/01/2012       Control encuit/ Control     24 V       operating range factor control supply voltage rated     1.4       closing delay     6       • rated value     0.9       • full-scale value     0.9       • at DC     6 ms       operating range factor control supply voltage rated     1.4       closing delay     6       • at DC     6 ms       opering deta     6       • at DC     6 ms		LZ3
consumed active power     0.4 W       percental drop-out voltage related to the input voltage     10 %       protection class IP     IP20       operating frequency without load     360 00 1/h       operating frequency without load     360 1/h       switching behavior     monostable       design of the switching function positively driven     No       mechanical service life (switching cycles) typical     30 000 000       electrical endurance (switching cycles) at AC-15 at     100 000       230 V typical     8 A       thermal current     8 A       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     05/01/2012       Control supply voltage at DC     eitad value       operating range factor control supply voltage rated     0.9       • initial value     0.9       • lill-scale value     1.4       closing delay     6 ms       • at DC     8 ms       opening delay     6 ms       design of the relay operating mechanism     poled       product component plug-in socket     Yes       Short-circuit protection     fuse gG: 10 A       auxiliary switch required     Anxiliary switch required		Y.
percental drop-out voltage related to the input voltage       10 %         protection class IP       IP20         operating frequency without load       36 000 1/h         operating frequency with load       36 000 1/h         switching behavior       monostable         design of the switching function       changeover switch         design of the switching function positively driven       No         mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) at AC-15 at       230 00 000         230 V typical       8 A         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       control supply voltage at DC         • rated value       0.9         • initial value       0.9         • initial value       0.9         • at DC       6 ms         operating range factor control supply voltage rated         value       1.4         closing delay       6         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         Sho		
protection class IP         IP20           operating frequency without load         36 000 1/h           operating frequency with load         360 1/h           switching behavior         monostable           design of the switching function positively driven         No           mechanical service life (switching cycles) typical         30 000 000           electrical endurance (switching cycles) at AC-15 at         100 000           230 V typical         100 000           control circuit / control         8 A           reference code according to IEC 81346-2         K           Substance Prohibitance (Date)         05/01/2012           Control circuit / Control         Control supply voltage at DC           • rated value         24 V           operating range factor control supply voltage rated           value at DC         0.9           • linitial value         0.9           • linitial value         1.4           closing delay         6 ms           design of the relay operating mechanism         poled           product component plug-in socket         Yes           design of the relay operating mechanism         poled           product component plug-in socket         Yes           design of the relay operating mechanism		
operating frequency without load         36 000 1/h           operating frequency with load         360 1/h           switching behavior         monostable           design of the switching function         changeover switch           design of the switching cycles) typical         30 000 000           electrical endurance (switching cycles) typical         30 000 000           electrical endurance (switching cycles) typical         100 000           230 V typical         8 A           thermal current         8 A           reference code according to IEC 81346-2         K           Substance Prohibitance (Date)         05/01/2012           Control circuit/ Control         24 V           operating range factor control supply voltage rated         24 V           operating range factor control supply voltage rated         0.9           • initial value         0.9           • full-scale value         1.4           closing delay         6 ms           • at DC         6 ms           design of the relay operating mechanism         poled           product component plug-in socket         Yes           design of the use link for short-circuit protection of the auxiliary switch required         Auxiliary switch required           Auxiliary witch required         Kuse g		
operating frequency with load       360 1/h         switching behavior       monostable         design of the switching function positively driven       No         mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) at AC-15 at       200 000         230 V typical       8 A         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       24 V         operating range factor control supply voltage rated value       0.9         • rated value       0.9         • initial value       0.9         • at DC       8 ms         openating delay       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the fuse link for short-circuit protection of the auxiliary switch required       Auxiliary switch required         Auxiliary switch required       Auxiliary switch required	•	
switching behavior       monostable         design of the switching function       changeover switch         design of the switching function positively driven       No         mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) at AC-15 at       230 V typical         100 000       230 V typical         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       05/01/2012         control supply voltage at DC       •         • rated value       24 V         operating range factor control supply voltage rated       0.9         • initial value       0.9         • initial value       1.4         closing delay       •         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         Standard socket       Yes         Standard socket       Standard socket         Short-circuit protection       fuse gG: 10 A         design of the fuse link for short-circuit protection of the       auxiliary switch required         Auxiliary sinching contact <th>operating frequency without load</th> <th></th>	operating frequency without load	
design of the switching function       changeover switch         design of the switching function positively driven       No         mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) at AC-15 at       230 V typical         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       0.9         e rated value       24 V         operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       6 ms         • at DC       8 ms         operating range forts control supply woltage rated       24 V         out at DC       0.9         • full-scale value       1.4         closing delay       6         • at DC       8 ms         operating range forts control supply contact       Yes         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A <th></th> <th></th>		
design of the switching function positively driven     No       mechanical service life (switching cycles) typical     30 000 000       electrical endurance (switching cycles) at AC-15 at     20 0V typical       230 V typical     100 000       thermal current     8 A       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     05/01/2012       Control circuit/ Control     05/01/2012       control supply voltage at DC     • rated value       • initial value     0.9       • initial value     0.9       • initial value     0.9       • at DC     8 ms       opening delay     6 ms       • at DC     6 ms       design of the relay operating mechanism     poled       product component plug-in socket     Yes       design of the fuse link for short-circuit protection of the auxiliary switch required       Auxiliary switch required       Auxiliary circuit     Changeover contact       type of switching contact     Changeover contact	switching behavior	monostable
mechanical service life (switching cycles) typical       30 000 000         electrical endurance (switching cycles) at AC-15 at       100 000         230 V typical       100 000         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       0         control supply voltage at DC       • rated value         • rated value       24 V         operating range factor control supply voltage rated       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       • at DC         • at DC       8 ms         opening delay       • at DC         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary witch required       Ahxiliary circuit         type of switching contact       Changeover contact	design of the switching function	changeover switch
electrical endurance (switching cycles) at AC-15 at 230 V typical       100 000         thermal current       8 A         reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       05/01/2012         control supply voltage at DC       • rated value         • rated value       24 V         operating range factor control supply voltage rated       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary switch required       Appli 90/10	design of the switching function positively driven	No
230 V typical     8 A       thermal current     8 A       reference code according to IEC 81346-2     K       Substance Prohibitance (Date)     05/01/2012       Control circuit/ Control     Control supply voltage at DC       • rated value     24 V       operating range factor control supply voltage rated value at DC     0.9       • full-scale value     1.4       closing delay     8 ms       • at DC     6 ms       design of the relay operating mechanism     poled       product component plug-in socket     Yes       design of the snap-on socket base     Standard socket       Short-circuit protection     fuse gG: 10 A       Auxiliary circuit     Changeover contact       type of switching contacts     AgNi 90/10	mechanical service life (switching cycles) typical	30 000 000
reference code according to IEC 81346-2       K         Substance Prohibitance (Date)       05/01/2012         Control circuit/ Control       05/01/2012         Control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       8 ms         opening delay       6 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         Standard socket       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary switch required       Changeover contact         Auxiliary circuit       Changeover contact         type of switching contacts       AgNi 90/10		100 000
Substance Prohibitance (Date)       05/01/2012         Control supply voltage at DC       • rated value         • rated value       24 V         operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       6 ms         • at DC       6 ms         operduct component plug-in socket       Yes         design of the relay operating mechanism       poled         product component plug-in socket       Yes         Standard socket       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary circuit       Changeover contact         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	thermal current	8 A
Control circuit/ Control         control supply voltage at DC         • rated value       24 V         operating range factor control supply voltage rated         value at DC       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary circuit       Changeover contact         type of switching contact       AgNi 90/10	reference code according to IEC 81346-2	К
control supply voltage at DC       24 V         operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       8 ms         opening delay       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       Changeover contact         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	Substance Prohibitance (Date)	05/01/2012
• rated value       24 V         operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary switch required       Changeover contact         Auxiliary circuit       Changeover contact         Applie of switching contacts       AgNi 90/10	Control circuit/ Control	
operating range factor control supply voltage rated value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         Auxiliary switch required       Changeover contact         Applie of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	control supply voltage at DC	
value at DC       0.9         • initial value       0.9         • full-scale value       1.4         closing delay       8 ms         • at DC       8 ms         opening delay       6 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         dexiliary switch required       Changeover contact         Auxiliary circuit       Changeover contact         type of switching contacts       AgNi 90/10	rated value	24 V
• full-scale value       1.4         closing delay       8 ms         • at DC       8 ms         opening delay       6 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10       AgNi 90/10		
closing delay       8 ms         • at DC       8 ms         opening delay       6 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       design of the fuse link for short-circuit protection of the auxiliary switch required         Auxiliary circuit       tuse gG: 10 A         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	initial value	0.9
• at DC       8 ms         opening delay       6 ms         • at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       Changeover contact         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	• full-scale value	1.4
opening delay • at DC6 msdesign of the relay operating mechanismpoledproduct component plug-in socketYesdesign of the snap-on socket baseStandard socketShort-circuit protectionfuse gG: 10 Adesign of the fuse link for short-circuit protection of the auxiliary switch requiredfuse gG: 10 AAuxiliary circuitChangeover contacttype of switching contactChangeover contactmaterial of switching contactsAgNi 90/10	closing delay	
• at DC       6 ms         design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       design of the fuse link for short-circuit protection of the auxiliary switch required         Auxiliary circuit       fuse gG: 10 A         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	• at DC	8 ms
design of the relay operating mechanism       poled         product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       Changeover contact         material of switching contacts       AgNi 90/10	opening delay	
product component plug-in socket       Yes         design of the snap-on socket base       Standard socket         Short-circuit protection       design of the fuse link for short-circuit protection of the auxiliary switch required         Auxiliary circuit       fuse gG: 10 A         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	• at DC	6 ms
design of the snap-on socket base       Standard socket         Short-circuit protection       fuse gG: 10 A         design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       Changeover contact         material of switching contacts       AgNi 90/10	design of the relay operating mechanism	poled
Short-circuit protection         design of the fuse link for short-circuit protection of the auxiliary switch required         Auxiliary circuit         type of switching contact       Changeover contact         material of switching contacts       AgNi 90/10	product component plug-in socket	Yes
design of the fuse link for short-circuit protection of the auxiliary switch required       fuse gG: 10 A         Auxiliary circuit       fuse of switching contact         Changeover contact       AgNi 90/10	design of the snap-on socket base	Standard socket
auxiliary switch required       Auxiliary circuit       type of switching contact     Changeover contact       material of switching contacts     AgNi 90/10	Short-circuit protection	
type of switching contact     Changeover contact       material of switching contacts     AgNi 90/10		fuse gG: 10 A
material of switching contacts AgNi 90/10	Auxiliary circuit	
	type of switching contact	Changeover contact
number of NC contacts for auxiliary contacts 0	material of switching contacts	AgNi 90/10
	number of NC contacts for auxiliary contacts	0

number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	2
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
Main circuit	
type of voltage	DC
Display	
display version as status display by LED	LED red
Connections/ Terminals	
product function removable terminal	No
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (1,0 2,5), 2x 1,0, 2x 1,5, 2x 2,5
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1.0 1.5), 2x 1.0, 2x 1.5
at AWG cables solid	1x (18 14), 2x 18, 2x 16, 2x 14
connectable conductor cross-section	
• solid	1 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 1.5 mm²
AWG number as coded connectable conductor cross section	
• solid	18 14
tightening torque with screw-type terminals	0.5 0.7 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	78 mm
width	15.5 mm
depth	71 mm
required spacing	
• with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-20 +70 °C
during transport	-20 +70 °C
Certificates/ approvals	
General Product Approval	Declaration of Conformity other
	L CE UK Confirmation

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=LZS:RT4A4L24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=LZS:RT4A4L24

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

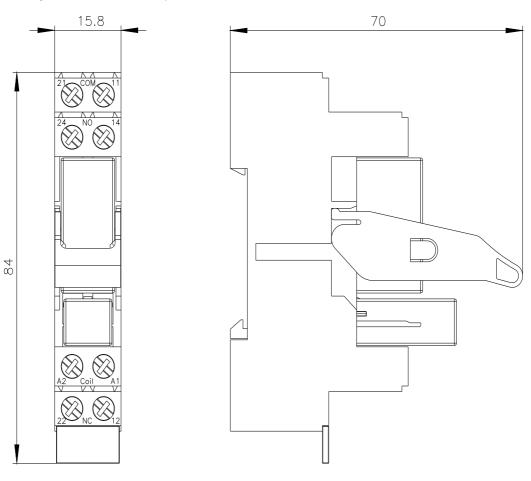
https://support.industry.siemens.com/cs/ww/en/ps/LZS:RT4A4L24

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=LZS:RT4A4L24&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/LZS:RT4A4L24/manual



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