

### product type designation

### Transponder RF630L

SIMATIC RF630L SmartLabel PET white, 90x30 mm ISO 18000-6C, EPC Class 1 Gen 2 frequency 860 to 960 MHz chip type NXP Ucode 8 128-bit (16 bytes) EPC no user memory strongly adhesive on plastic printable thermotransfer temperature from -25 °C to +160 °C roll 76.2 mm (3") core diameter 3,500 units/role 2 rolls/carton 7000 units MOQ.



### suitability for operation

RF600

### radio frequencies

operating frequency	860 ... 930 MHz
range / maximum	5 m; observe system manual RF600: overrange is possible, range is reader dependent: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
protocol / with radio transmission	EPCglobal Class 1 Gen 2 / ISO 18000-63
transfer rate / with radio transmission / maximum	320 kbit/s
product feature / multitag-capable	Yes
polarization	Linear

### electrical data

product component / backup battery	No
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### memory

type of memory	EEPROM
storage capacity / of the user memory	16 byte
type of memory organization	EPC 128 bit (16 byte), no user memory
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	100000
data retention time / at ambient temperature < 40 °C / not less than	10 a
property of memory	lock, unlock, kill, write protection, password protection
type of transponder chip used	NXP Ucode 8

### mechanical data

material	PET
color	white
mounting distance / relating to metal surfaces / recommended / minimum	3 mm

### ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> <li>outside the read/write area</li> <li>during storage</li> </ul>	<p>-25 ... +85 °C</p> <p>-25 ... +160 °C</p> <p>5 ... 25 °C</p>
ambient condition / for operation	Maximum storage life 2 years
protection class IP	IP67, when adhered
resistance to mechanical stress	Torsion and bending stress conditionally permissible

### design, dimensions and weights

width	90 mm
height	0.2 mm
depth	30 mm

net weight	3 g
fastening method	one-side adhesive
pack type	Rolls with 3500 labels for applicator with 3" core
<b>product features, product functions, product components / general</b>	
product feature	
• tamper-proof	No
• printable	Yes
printing process	Thermal transfer process
<b>standards, specifications, approvals</b>	
certificate of suitability	
• IECEX	No
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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