

Product type designation

RF630L transponder

SIMATIC RF630L (special version) SmartLabel PET; 105x 25 mm; strongly adhesive on plastic ISO 18000-6C, EPC Class 1 GEN 2 frequency 860 to 960 MHz, Chip Type Alien Higgs 3, EPC 96 bit expandable up to 480 bits, 64/8-byte add-on memory, 1000 units on one roll 5 rolls in carton Minimum order quantity 5000 labels



Suitability for operation

RF600

| Radio frequencies | |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency | 860 ... 960 MHz |
| Range / maximum | 4 m; observe system manual RF600: overrange is possible, range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964 |
| Transfer rate / with radio transmission / maximum | 320 kbit/s |
| Product feature / multitag-capable | Yes |
| Polarization | Linear |

| Electrical data | |
|------------------------------------|----|
| Product component / Backup battery | No |

| Memory | |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type of memory | EEPROM |
| Storage capacity / of the user memory | 64 byte |
| Type of memory organization | EPC memory 96/480 bits, user memory 64/16 bytes (512/128 bits), TID memory 12 bytes |
| Number of read cycles / at ambient temperature < 40 °C / maximum | 10000000000000 |

| | |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| Number of write cycles / at ambient temperature < 40 °C / maximum | 500 |
| Data retention time / at ambient temperature < 40 °C / not less than | 50 y |
| Property of memory | lock, unlock, kill, write protection, password protection |
| Type of transponder chip used | Alien Higgs 3 |

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"> during read/write access | -25 ... +85 °C |
| <ul style="list-style-type: none"> outside the read/write area | -25 ... +85 °C |
| <ul style="list-style-type: none"> during storage | 5 ... 20 °C |
| Ambient condition / for operation | Maximum storage life 1 year at 45% to 55% humidity, operating temperature permanent up to 85 °C, transient up to 130 °C for 30 minutes |
| Protection class IP | IP67, when adhered |
| Resistance to mechanical stress | Torsion and bending stress conditionally permissible |

Design, dimensions and weights

| | |
|---------------|----------------------------------------|
| Width | 25 mm |
| Height | 0.3 mm |
| Depth | 105 mm |
| Mounting type | one-side adhesible onto plastic / foil |

Product features, product functions, product components / general

| | |
|-------------------------------------------------------------|--------------------------|
| Product feature | |
| <ul style="list-style-type: none"> printable | Yes |
| Printing process | Thermal transfer process |

Standards, specifications, approvals

| | |
|---------------------------------------------------------|----|
| Certificate of suitability | |
| <ul style="list-style-type: none"> IECEX | No |

Further information / Internet-Links

| | |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Internet-Link | |
| <ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL | https://support.industry.siemens.com/cs/ww/en/view/67384964 |
| <ul style="list-style-type: none"> to website: Industrial communication | http://www.siemens.com/ident/rfid |
| <ul style="list-style-type: none"> to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> to website: Image database | http://automation.siemens.com/bilddb |

- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

last modified:

03/11/2020