

### product type designation



### Reader RF1040R USB/RS232

SIMATIC RF1000 Access Control Reader RF1040R; LF 125 kHz, HITAG 1/2/S, EM41xx, HF, ISO 14443 A/B, ISO15693; USB port inc. RS 232 interface; IP65 front, -25 to +55 °C 90 x 62 x 25 mm LxWxH; with integrated antenna, incl. 1.8 m USB connecting cable

### suitability for operation

HiTag 1/2/S, EM4xxx, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems

### radio frequencies

|   |  |
|---|--|
| operating frequency                               | 0.125 ... 13.56 MHz  |
| range / maximum                                   | 30 mm; Range is dependent on transponder type: 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                | HiTag 1/2/S, EM41xx/45xx, EKS key, ISO 15693, ISO 14443 A/B, Felica, NXP NTAG21x, HID iClass   |
| transfer rate / with radio transmission / maximum | 424 kbit/s   |
| product feature / multitag-capable                | Yes  |

### electrical data

|   |              |
|---|--------------|
| transfer rate / at the point-to-point connection / serial / maximum | 115.2 kbit/s |
|---|--------------|

### interfaces

|   |  |
|---|--|
| standard for interfaces / for communication | USB 2.0, RS232   |
| type of electrical connection               | 1.8 m connecting cable with USB 2.0 type A connector or RS232 connecting cable |

### mechanical data

|  |         |
|--|---------|
| material   | PC-GF   |
| color  | Ti gray |
| tightening torque / of the screw for securing the equipment / maximum  | 1.5 N·m |
| mounting distance / relating to metal surfaces / recommended / minimum | 0 mm    |

### supply voltage, current consumption, power loss

|                          |                |
|--------------------------|----------------|
| supply voltage           |                |
| • at DC / rated value    | 5 V            |
| • at DC                  | 4.6 ... 5.25 V |
| consumed current / at DC |                |
| • at 5 V / typical       | 0.15 A         |
| • at 5 V / maximum       | 0.3 A          |

### ambient conditions

|                     |  |
|---------------------|--|
| ambient temperature |  |
| • during operation  | -25 ... +55 °C                                       |
| • during storage    | -25 ... +55 °C                                       |
| • during transport  | -25 ... +55 °C                                       |
| protection class IP | IP65, on front after cabinet installation, IP20 rear |
| shock resistance    | EN 60721-3-7 Class 7 M2                              |

|  |   |
|--|---|
| shock acceleration   | 300 m/s <sup>2</sup>  |
| vibrational acceleration   | 50 m/s <sup>2</sup>   |
| <b>design, dimensions and weights</b>                                    |   |
| width  | 90 mm   |
| height   | 62 mm   |
| depth  | 23.5 mm   |
| net weight   | 0.12 kg   |
| fastening method   | 4 M4 screws for cabinet installation  |
| <b>product features, product functions, product components / general</b> |   |
| display version  | 3-color LED   |
| product feature / silicon-free   | Yes   |
| <b>standards, specifications, approvals</b>                              |   |
| certificate of suitability   | Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus   |
| certificate of suitability<br>• IECEx<br>• for IECEx / as marking        | Yes<br>EX: II 3G Ex ec IIC T4 Gc, II 3D Ex tc IIIC T80 °C Dc  |
| <b>accessories</b>   |   |
| accessories  | Card holder, USB cable 0.5 m, RS232 connector   |
| <b>further information / internet-Links</b>                              |   |
| Internet-Link  | <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>  |
|  | <a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a><br><a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

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