

# Datasheet

## Nexus Prox reader with EST technology for external antenna

**DAT8022-EN**  
 Nexus P EXTA: 802-000-4100



Nexus P Exta



External antenna

Technical data													
Supply voltage	Min 9V DC – Max 24V DC												
Typical supply current	From 72mA at 14V DC, 1W												
Peak current	150mA at 14V DV, 2.1W												
Communications	RS485 port, using MODBUS protocol with encrypted data.												
Transmit frequency	125 kHz EM-Marine proximity card reader												
Operating temperature	-20°C to +70°C												
Storage temperature	-45°C to +85°C												
Important installation info	The reader calibrates with the RF-ID antenna when the power is turned on. Therefore it is important to install the external antenna and the stainless steel shield before applying the power supply.												
Wiring and cable installation													
Cable length	3 m												
Max. cable distance from central	50 m, see cable specifications for details												
Wiring:	<table border="0"> <tr> <td>Orange</td> <td>+</td> <td>9-24V DC input</td> </tr> <tr> <td>Orange/White</td> <td>-</td> <td>Ground</td> </tr> <tr> <td>Green</td> <td>RA</td> <td>RS-485 BUS</td> </tr> <tr> <td>Green/White</td> <td>RB</td> <td>RS-485 BUS</td> </tr> </table>	Orange	+	9-24V DC input	Orange/White	-	Ground	Green	RA	RS-485 BUS	Green/White	RB	RS-485 BUS
Orange	+	9-24V DC input											
Orange/White	-	Ground											
Green	RA	RS-485 BUS											
Green/White	RB	RS-485 BUS											
Features													
For external antenna	Yes												
External antenna suitable for	PES06 to PES20 and PDS												
LED indicator	Two color: red for locked door and green for open door.												
Buzzer	Short beep if access is granted and a longer error beep if otherwise.												
Reading distance - ISO card	Typical 40 mm												
Reading distance - tag	Typical 30 mm												
Anti-sabotage protection (Tamper switch)	Optical, integrated												
Housing													
Size	W: 82mm × H: 158mm × D: 56mm												
Recommended mounting height of antenna	130 - 160 cm												
Housing	Self-extinguishing material PC-ABS (V0)												
IP protection	IP65												
Color	Grey												
Weight	165g												