

# Datasheet

## Nexus MIFARE reader for flush mount installation

**DAT8037-EN**  
Nexus readers: 802-00x-310x  
Feller frame compatible



Nexus MFM-FW reader



Nexus MFM-FW with white cover frame



Nexus MFM-FB with black cover frame

**Note: Frame is not included - order separately**

Technical data									
Supply voltage	Min 9V DC – Max 24V DC (should be powered with 800-00x-0000 powerbox)								
Typical supply current	From 70mA at 14V DC, 1W								
Peak current	150mA at 14V DC, 2.1W								
Communications	RS485 port, using MODBUS protocol with encrypted data								
Transmit frequency	13.56 MHz Mifare-NFC card reader								
Operating temperature	-20°C to +70°C								
Storage temperature	-45°C to +85°C								
Wiring and cable installation									
Connector type	4 pin female sockets with retention latches (wire side)								
Max. cable distance from central	200m, see INS16xx for details								
Wiring:	<table border="0"> <tr> <td>+</td> <td>9-24V DC input</td> </tr> <tr> <td>-</td> <td>Ground</td> </tr> <tr> <td>RA</td> <td>RS-485 BUS</td> </tr> <tr> <td>RB</td> <td>RS-485 BUS</td> </tr> </table>	+	9-24V DC input	-	Ground	RA	RS-485 BUS	RB	RS-485 BUS
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Features									
LED indicator	Two colours: red for locked door and green for open door								
Buzzer	Short beep if access is granted and a longer error beep if access denied								
Reading distance - ISO card	Typical 50 mm								
Reading distance - tag	Typical 30 mm								
Anti-sabotage protection (Tamper switch)	Optical, integrated								
Offline functionality	Possible with the installation of a supplementary Nexus offline controller								
Housing									
Size electronics (lower part)	W: 77mm × H: 77mm x D:30								
Recommended mounting height	110 - 130 cm								
Usage	Indoor use only								
Foil overlay	White (Nexus MFM-xW), W: 60mm × H: 60mm								
Weight	36 g								
Installation compatibility									
Installation with cover frame	Feller-Nr: 2911.FMI.61 (white)								
Installation in IP55 box cover frame	Feller-NR: 751.NUP.Q.61(white)								

**Note: Power should be disconnected before installing or handling bare PCBs. Installation must be done by a qualified installer only.**