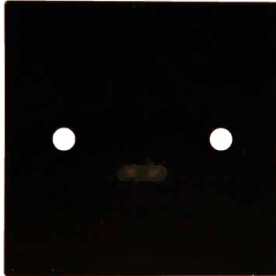


# Datasheet

Nexus MKW MIFARE reader for integration behind reader window or shield with external keyboard connector



Nexus MKW

Technical data																																				
Supply voltage	Min 9V DC – Max 15V 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	MIFARE readers: 13.56 MHz MIFARE-NFC card reader																																			
Operating temperature	-20°C to +70°C																																			
Storage temperature	-45°C to +85°C																																			
Keyboard connector	10 pin																																			
Wiring and cable installation																																				
Cable length	3 m																																			
Max. cable distance from central	See cable specifications in INS16xx for details																																			
Keyboard matrix	<table border="1"> <tr> <td>8</td> <td></td> <td></td> <td>#</td> <td>9</td> <td>3</td> <td>6</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td>0</td> <td>8</td> <td>2</td> <td>5</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td>*</td> <td>7</td> <td>1</td> <td>4</td> </tr> <tr> <td>*1</td> <td>L</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>pin</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>9</td> <td>10</td> </tr> </table>	8			#	9	3	6	7			0	8	2	5	6			*	7	1	4	*1	L	R					pin	2	3	4	5	9	10
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Wiring:	<table> <tr> <td>Orange</td> <td>+</td> <td>9-15V 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	+	9-15V DC input	Orange/White	-	Ground	Green	RA	RS-485 BUS	Green/White	RB	RS-485 BUS																							
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Features																																				
For info-module or stainless steel shield	Yes																																			
LED indicator	Two colour: 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 20 mm																																			
Anti-sabotage protection (Tamper switch)	Optical, integrated																																			
Possible to secure with vandal shield	Yes																																			

Housing	
Size	W: 56mm × H: 56mm × D: 12mm
Recommended mounting height	130 - 160 cm
Housing	Self-extinguishing material PC-ABS (V0)
IP protection	IP65
Colour	Black
Weight	165g

**DAT8122-EN**

Nexus MKW reader: 802-000-6110  
(MIFARE)