

Datasheet

Nexus MIFARE® DESFire® readers with EST Technology (M, MK, MB, MBK)
Nexus Prox readers with EST Technology (P, PK)

DAT8020-EN
Nexus readers: 802-001-15x0
(MIFARE DESFire and Prox)



Nexus M, MB, P



Nexus MK, MBK, PK

Technical data		
Supply voltage	Min 9V DC – Max 24V DC	
Typical supply current	From 72mA at 14V DC, 1W Reader with keypad: 180mA at 14V DC, 2.5 W	
Peak current	150mA at 14V DV, 2.1W Reader with keypad: 200mA at 14V DC, 2.8 W	
Communications	RS485 port, using MODBUS protocol with encrypted data	
Transmit frequency	MIFARE® DESFire® readers: 13.56 MHz MIFARE® DES-Fire®-NFC and 2.4GHz Bluetooth Low Energy (BLE) reader Prox readers: 125 kHz EM-Marine proximity card reader	
Operating temperature	-20°C to +70°C	
Storage temperature	-45°C to +85°C	
Wiring and cable installation		
Cable length	3 m	
Max. cable distance from central	200 m, see cable specifications in INS16xx for details	
Wiring:	Orange + 9-24V DC input Orange/White - Ground Green RA RS-485 BUS Green/White RB RS-485 BUS	
Installation	Installation of the equipment must be done by a professional electrician on restricted access location	
Features		
Backlit touch keypad	Possible for Nexus MK, PK, MBK	
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. With a keypad, each key pressed you will hear a short click sound and blink of green LED	
ISO card reading distance	Typical up to 40 mm	
Tag reading distance	Typical up to 35 mm (Prox: typical up to 30 mm)	
BLE reading distance	Typical up to 10 m	
Anti-sabotage protection	Optical, integrated	
Possible to secure with vandal shield	Yes on Nexus M/MB/P (not on readers with keypad)	
Offline functionality	Nexus MIFARE® DESFire® readers require a Nexus MO 1-door controller for offline operation	
Housing		
Size	W: 54mm × H: 149mm × D: 15mm	
Recommended mounting height	130 - 160 cm	
Housing	Self-extinguishing material PC-ABS (V0)	
IP protection	IP65	
Colour	Black	
Weight	165g	
Standard and certificates	CE, EN 60839-11-1 Grade 4	
Warranty	5 years	