

BS7273-4 Door Release System Data Sheet

Additional failsafe mechanism to meet the code of practice requirements of BS7273-4 section 5.

Description

BS7273 part 4 2007 is the code of practice governing door holders and door release mechanisms. The Morley-IAS door release system offers a compliant solution to meet the requirements of section 5 of BS7273-4 Category A installations.

The DRM-1 module has been designed for use in conjunction with the existing output module and wider fire system to meet the requirements of section 5 of BS7273-4 Category A installations.

Features

- Additional failsafe mechanism to meet the code of practice requirements of BS7273-4 section 5.
- Visual indication of loop power status, loop communication and activation status
- Standalone module available for retrofit (DRM-1)
- Door release system package (MI-DRS-1) available for new installations
- Dual time delay settings in line with BS-7273-4
- Additional volt free relay
- Din rail mountable
- Compatible with Morley-IAS module enclosure range
- Consistent design with other Morley-IAS modules



The product is designed to fit the extensive Morley-IAS range of mounting options and enclosures providing you with flexibility and speed of installation. Supplied with the required cable loom to integrate this addition measure into the system the module can be mounted on a din rail with the M200E-DIN or as recommended in our custom made SMB6-VO enclosure capable of holding 6 modules.

The Morley-IAS door release system is compatible with 12-24VDC door hold systems and includes a volt free contact to switch mains through the use of a third party relay, this gives the added benefit of separating the fire system from direct mains connection which could cause significant and extensive damage to the loop and loop devices.

The installation code of practice allows for a delay of the activation of up to 120 seconds which can add to the commissioning time on site, the system provides two time settings, one within 3 seconds and the other at 100 seconds to reduce the overall commissioning process.

BS7273-4 Door Release System

BS7273 part 4 2007 is the code of practice governing door holders and door release mechanisms. The MI-DRS-1 system offers a compliant solution to meet the requirements of section 5 of BS7273-4 Category A installations by ensuring the failsafe operation of actuation of release mechanisms in conjunction with the existing output module and wider fire system. The module is compatible with 12-24VDC door hold systems and includes a volt free contact to switch mains through the use of a third party relay.

Technical Specifications

BS 7273-4 Door Release Module DRM1

Environmental Specifications:

Operating Temperature:	-5°C to +45°C
Humidity:	5% to 95% Relative Humidity

Mechanical Specifications:

Module Dimensions (mm):	93mm(H) x 94mm(W) x 23mm(D)
Weight (Module only):	93g
Maximum Wire Gauge:	2.5mm ²

Electrical Specifications:

Door Supply:	The module power from the door input supply
Max current draw from door supply:	35mA @12V (Auxiliary relay enabled) 25mA @12V (Auxiliary relay disabled) 25mA @24V (Auxiliary relay enabled) 20mA @24V (Auxiliary relay disabled)
Maximum door output continuous current:	Current limited at 1Amp
Auxiliary relay:	Maximum rated continuous current 1 Amp Maximum voltage 30V AC or DC
Loop Specification:	Loop input voltage range 15 to 30VDC Maximum loop current 11µA @24V and 25°C

BS 7273-4 Door Release System MI-DRS1

The Morley-IAS Door Release System (MI-DRS-1) comprises of DRM-1 door release module, MI-DCMO single output model and SMB6-V0 surface mount box prewired for simple installation.

Environmental Specifications:

Operating Temperature:	-5°C to +45°C
Humidity:	5% to 95% Relative Humidity

Mechanical Specifications:

Dimensions (mm):	170mm(H) x 245mm(W) x 100mm(D)
Weight (Module only):	700g
Maximum Wire Gauge:	2.5mm ²

Single Output Control Module MI-DCMO

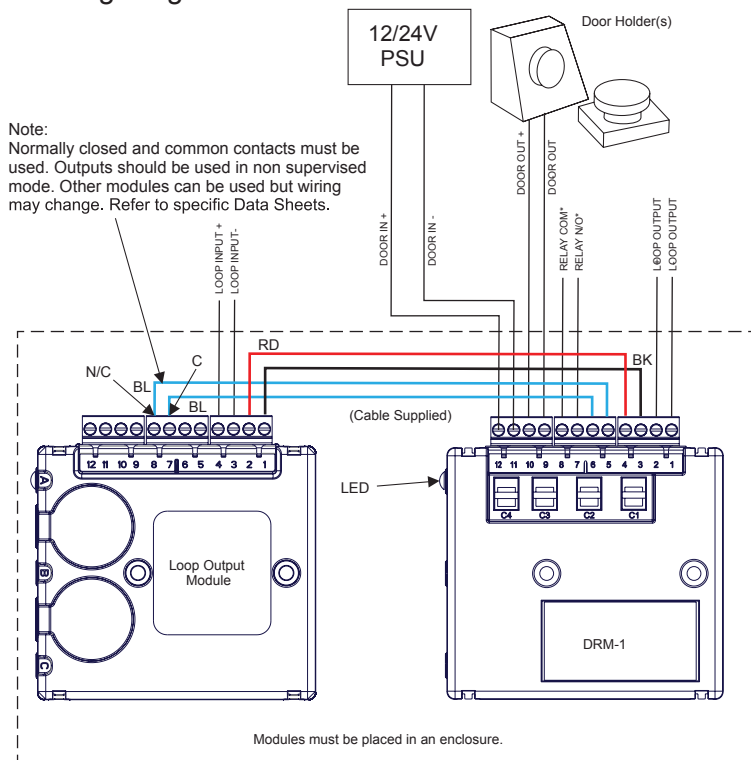
Electrical Specification:

Current Consumption: (without communication)	310 µA @ 24 VDC
Current Consumption: (communication every 5 sec with LED blink enabled)	510 µA @ 24 VDC
Maximum Alarm Current:	5 mA @ 24 VDC (per LED with LED enabled)
Operating Voltage:	15 to 30 VDC peak

Environmental Specification:

Operating Temperature:	-5°C to +45°C
Humidity:	5% to 95% Relative Humidity

Wiring Diagram



Part Numbers

DRM-1	BS7273 Door Release Module
MI-DRS-1	BS7273 Door Release System (Comprising DRM-1 door release module and MI-DCMO single output model prewired and mounted in SMB6-V0 surface mount box.)
SMB6-VO	Surface Mount Module Box (for up to 6 MI modules)
MI-DCMO	Single Output Control Module
M200E-DIN	DIN Rail Mounting Clip for M2xx series modules.

For further details on these or any other Morley-IAS products please contact your local distributor, Morley-IAS Business Manager or via our contact details found below. Morley-IAS by Honeywell - Providing a control panel solution, for fire industry professionals, committed to supporting our device partners.



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