


MIOU


LIOU (Lite Version)

Multi Input/Output Unit

Features - MIOU

- Multiple inputs and outputs at one address
- Opto isolated inputs
- Volt free contact or switched voltage outputs
- Considerable space and cost saving over discreet I/O units
- Easy clip-on din rail mounting method
- Compatible with Solo, Syncro AS and Syncro control equipment
- Low standby supply current
- Hochiki ESP protocol 

Features - LIOU

- Four optically isolated inputs
- Four volt free changeover relay contact outputs
- 24V DC powered
- Small footprint
- Cost effective for concentrated I/O applications
- Built in short circuit isolator
- Compatible with Syncro and Syncro AS addressable fire control panels
- Hochiki ESP protocol 

Product Overview - MIOU

- Occupying less than 20% of the space required by conventional I/O units, the MIOU replaces the large and expensive enclosures normally required for this application.
- With 8 opto-isolated inputs and 8 volt-free relay contacts (relay outputs individually selectable as normally open, normally closed or switched voltage outputs), the MIOU will find a multitude of uses in concentrated I/O applications.

Product Overview - LIOU

- LIOU Lite provides 4 inputs and 4 outputs to a Hochiki analogue addressable detection loop in a compact and cost effective package.
- The LIOU Lite can replace up to four addressable modules in approximately the same space taken by one standard module and is ideal for applications where a concentration of I/O is needed in a limited space.
- The modules can be addressed with the Hochiki, hand held programmer in the range 1 to 127.
- All inputs and outputs are fully configurable for any action and for cause and effect via the Syncro Loop Explorer configuration utility.
- The LIOU connects to the ESP loop as per all other ESP devices. Consider the maximum number of sub-addresses when using LIOU.
- Each unit has an integral short circuit isolator which provides further cost and space saving.

Note:

MIOU & LIOU are currently compatible with Solo, Syncro and Syncro AS control panels only.

Note:

MIOU & LIOU support Hochiki ESP protocol only.

Note:

Inputs on MIOU & LIOU are not monitored.



LIOU - Model No. K507



MIOU - Din rail mounting version (K559)

Range

Product Code	Module	PSU	Weight	Size (mm)
K559 (Module Only)	MIOU	-	0.3kg	203(L) x 77(W) x 45(D)
H66000M2	MIOU	-	3.6kg	385(L) x 310(H) x 90(D)
H66750M2	MIOU	750mA	6.8kg	385(L) x 310(H) x 90(D)
K507 (Module Only)	LIOU	-	0.2kg	119(L) x 99(W)
HL66000M2	LIOU	-	3.6kg	385(L) x 310(H) x 90(D)
HL66750M2	LIOU	750mA	6.8kg	385(L) x 310(H) x 90(D)

Specification

Technical - MIOU

- Boxed unit battery capacity** - 2.6Ah 12V (2 per unit)
- Finish - lid & box** - Epoxy powder coated
- Colour - lid & box** - BS 00-A-05 grey - fine texture
- Boxed unit IP rating** - IP30
- Module mounting** - Symmetrical or asymmetrical din rail
- Communication protocol** - Hochiki ESP
- Supply voltage H6600001** - 24V DC
- Supply voltage H6675001** - 110 or 230V AC 50 or 60 Hz. (specify when ordering, default is 230V)
- Quiescent supply current** - 10 milliamps
- Input operated current** - 3 milliamps
- Output operated current** - 18 milliamps
- Input trigger resistance** - 1k maximum
- Output contact rating** - 30V DC 1 Amp maximum
- Switched -ve output** - 65 milliamps maximum per output
- Minimum recommended PSU** - 750 milliamps at 24V DC
- Operating temperature** - -5 to +40 deg. C
- Device sub-address count** - 17 (of 800 permitted in Syncro / Syncro AS panel)
- Address setting** - Hochiki hand held programmer (see TB1010)

Technical - LIOU

- Boxed unit battery capacity** - 2.6Ah 12V (2 per unit)
- Finish - lid & box** - Epoxy powder coated,
- Colour - lid & box** - BS 00 A 05 grey - fine texture
- Module mounting** - 4 x 4mm holes in PCB
- Communication protocol** - Hochiki ESP
- Supply voltage (K507 & HL6600M2)** - 21 to 30V DC
- Supply voltage (HL66750M2)** - 230V AC
- Mains fuse for HL67750M2** - 20mm ceramic 2A/250V fast acting
- Quiescent supply current** - 10 milliamps
- Input operated current** - 3 milliamps
- Output operated current** - 18 milliamps
- Input trigger resistance** - 1K maximum
- Output contact rating** - 30V DC/2A - 230V AC/0.5A
- minimum recommended PSU** - 750 milliamps at 24V DC
- Operating temperature** - -5 to +40 deg. C
- Device sub-address count** - 17 (of 800 permitted in Syncro / Syncro AS panel)

