[B] Uhlenbrock Elektronik

Electronics for the intelligent railway

Intellibox-IR now with integrated infred receiver

NEW ITEMS 2005

Intellibox-IR
Intellibox with integrated Infrared Receiver

Mini-Drive motors
For DC, AC and digital function outputs

76 400
Multi-protocol decoder with load regulation for DC motors, SUSI Sound and LISSY interface connectors

Sound decoder
Multi-protocol decoder with load regulation for H0-DC motors, IntelliSound and LISSY connectors

LISSY Mini-transmitter
For connection to a locomotive and Sounddecoder with LISSY-interface

LocoNet installable display
For displaying LISSY Information on the control panel

INTELLIBOX-IR
WITH INFRARED RECEIVER

- With integrated infrared Receiver for the IRIS remote control
- Included in upgrade to Software version 2.0

Operate your Intellibox easily with the IRIS remote control without any extras, because the infrared receiver for the IRIS remote control is now built into the Intellibox. If more than one receiver should be needed because of the room layout, then two external infrared receivers (Part No. 66 520) can be attached to the Intellibox.

The Intellibox upgrade to software-Version 2.0 is available to you free, as soon as it becomes available. Version 2.0 of the system software supports 12 special functions for DCC decoders, locomotive selection from during refresh cycle is possible and the selected locomotive addresses can be stored when the unit is switched off, so that they are immediately available after switching on.

TECHNICAL DATA
max. Current load 3 A
on the I²C Bus up to 1 A
on LocoNet output up to 0.5 A

Part No. 65 050 Intellibox-IR

`0-G` `~AC` `=DC` `LN` `Mot` `DCC` `TRIX` `DIGITAL 2`

Deliverable from March 2005.

INFO Intellibox
THE MULTI-PROTOCOL DIGITAL SYSTEM

A single unit offers all digital control functions needed on your model railway layout. The Intellibox is independent of the track system or decoder format. It controls most manufacturer's decoders and data formats.
And all mixed at the same time!

OUR STANDARD SETS A NEW BASE LINE

- Independent of track system
- Simultaneous Motorola, DCC, Selectrix
- Up to 128 speed steps
- Up to 9999 Decoder addresses
- Virtual Locomotive addresses
- Multi-traction with up to 4 locomotives
- Switching of turnouts and signals
- Switching of routes
- Multilingual user interface
- Integrated computer interface
- Possible to connect many devices
- Programming of decoders with different data formats
- Free system software updates
- Simplest operation

ALL IN ONE BOX

With the Intellibox you are fully equipped for digital operation. A single device puts the functions of central processing unit, booster, speed controller, keyboard, route control, s88-Monitor, Programmer, computer interface and an infrared receiver at your disposal.

You can use the Intellibox on 2-rail or 3-rail layouts. You can use locomotive, function, turnout and switching decoders simultaneously in Motorola, DCC and Selectrix format from most manufacturers.

CONNECT WHAT YOU LIKE

The Intellibox can be connected with a variety of digital modules from different manufacturers

Control 80/80f, boosters in the Motorola and DCC format, keyboard, Memory, Switch board, Lokmaus 1, s88 and LocoNet feedback modules, PC or Mac and all devices with LocoNet connection (IB-Control, FRED, IB-Switch) can be attached directly.

Using special adapters you can attach a Central unit, Control unit, Motorola Track power booster, Lokmaus 2® and X-bus devices.

MINI-DRIVE MOTORS
FOR DC, AC AND DIGITAL FUNCTION OUTPUTS

- Miniature drive motors in high quality metal construction
- For motorizing vehicles and working models
- Size 15,5 x 11 x 8 mm; shaft 11,5 mm long, OD 1,5 mm
- Includes pulley, setting lever and two fixing bolts

Abb. 1:1

To motorize vehicles and working models, e.g. crane cars, pantograph raising, gantry cranes or gate motors. The motor has torque of 0.12 Ncm and can lift a weight of 60g with the pulley. Load free speed of 30 rpm.

Available in two different Versions.

MINI-DRIVE MOTOR 81 100
For direct connection to 16V AC, 12V DC power or to the motor output of a locomotive decoder.
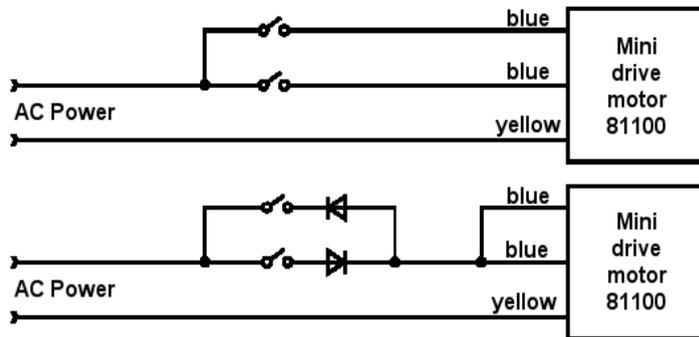
The mini drive motor 81 100 is attached to DC or AC power. The direction of rotation can then be selected using two keys.

If the mini drive motor 81 100 is attached to the motor output of a locomotive decoder, its running speed can be regulated using the digital center's speed controller continuously.
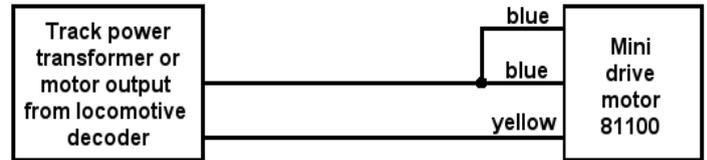
Part No. 81 100   Drive motor for 16V = und 12V ~
Deliverable from March 2005.

MINI-DRIVE MOTOR 81 200
For direct connection to the function outputs of decoders.
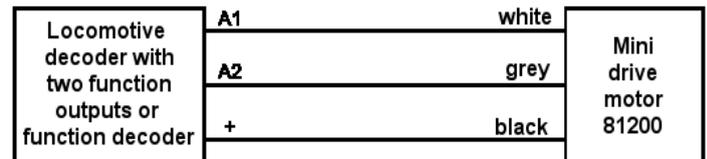
When connected to the function output of a locomotive or function decoder the motor can be switched ON and OFF using the function keys.

Part No. 81 200 Drive motor for digital function outputs
Deliverable from March 2005.

The gantry and cable reel are each driven by a Mini drive motor.

LOCOMOTIVE DECODER WITH LISSY INTERFACE

FOR HO-DC LOCOMOTIVES

- Multi-protocol decoder with load regulation
- Replacement for locomotive decoder 76 500 und 76 520
- With output for LISSY Mini-transmitter module
- Extended Motor regulation
- DCC und Motorola data format
- With 4 Function outputs @ 1 A, two of which depend on travel direction
- Short circuit and over heating protection for all outputs
- Motor output 1 A
- Size 22 x 12,5 x 5 mm
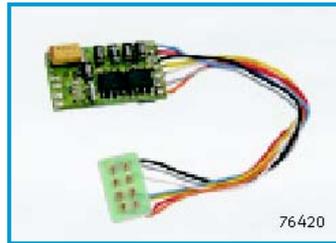
Part No. 76 400   with solder tails

Part No. 76 420   with 8-pol. NEM 652 plug

H0	~AC	=DC	Mot	DCC	SUSI	LISSY	DIGITAL 2

Deliverable from May 2005.

H0-SOUND DECODER

LOCOMOTIVE DECODER WITH INTELLISOUND

- A combination of locomotive decoder 76 420 and an IntelliSound module
- With output for LISSY Mini-transmitter
- Available in 4 variants, each with 8-pol. connector and loudspeaker or with 21-pol. connector
- Size 31 x 16,6 x 5,5 mm

Sound	with 8-pol. Connector	with 21-pol. Connector
For individual Programming	Part No. 36 020	Part No. 36 030
Large steam locomotive/BR 01 etc.	Part No. 36 120	Part No. 36 130
Large diesel locomotive/BR 218/220	Part No. 36 220	Part No. 36 230
Electric locomotive old style/E10 etc.	Part No. 36 320	Part No. 36 330

Deliverable from July 2005.

DECODER REFERENCE TABLE

Type	76 400 / 76 420	Sound module
Data format	Mot-DCC	Mot-DCC
Gauge	TT-H0e-H0m-H0	TT-H0e-H0m-
Address range Märklin / Uhlenbrock	80 / 9999	80 / 9999
Speed steps	14-128	14-128
Motor's maximum current consumption	1 A	1 A
For bell armature motors	yes	yes
Load regulation	yes	yes
Programmable Motor performance	yes	yes
Function outputs with direction dependence	4/2	4/2
Dimmable light outputs	yes	yes
Shunting gear	yes	yes
Acceleration/brake inertia	yes	yes
Automatic analog detection	yes	yes
DC Analog operation	yes	yes
Short circuit detection	yes	yes
SUSI interface	yes	yes
Interface for LISSY Mini-transmitter	yes	yes
Sound module onboard	no	yes
Updatable Flash-Memory	yes	yes
Connection	Cabel / NEM 652	NEM652/21-pol
Size in mm	22x12.5x5	31x 6.6x5.5

LISSY MINI-TRANSMITTER

MINI-INFRARED-TRANSMITTER FOR THE LISSY-SYSTEM

- Infrared-transmitter for the individual locomotive control system LISSY
- For connecting to an Uhlenbrock locomotive decoder 76200, 76400 / 76420 and to the Sound decoder from the 36xx series
- Fits under the NEM coupler housing
- For all vehicles, that have to trigger control functions
- Sends addresses in the range 1 to 9999 and one of four train categories
- Independent of track gauge and digital format
- Size 7 x 5,1 x 1,7mm
- With connector for the SUSI interface
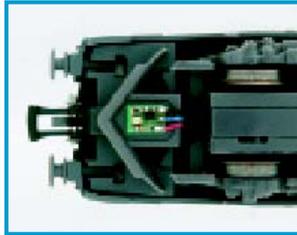
Part No. 68 400 LISSY Mini-transmitter

`LN` `DIGITAL 2`

Deliverable from March 2005.

SHUTTLE TRAIN CONTROL

LISSY-SPECIAL EDITION

- Pre-configured Module
- Just install and off it goes
- Usable with almost all Digital centers
- Re-programmable to other automatic operations
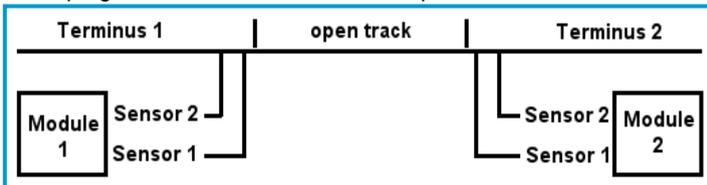
In the first LISSY system special edition are the pre-configured modules for a single-railed shuttle train, so that the section can be set up with programming and be operational immediately.

Contents: 1 LISSY system transmitter, 2 LISSY Receivers, 2 LocoNet cables 2.15 m with the LISSY system manual and a special guide for the installation and start-up the shuttle trains.

Part No. 68 010 LISSY-Shuttle train control

Available now.

LOCONET PANEL DISPLAY

LISSY INFORMATION AT THE CONTROL PANEL

- For display of locomotive information on the control panel, that is reported by a LISSY receiver
- Display of address and speed in km/h
- 4 digit display
- Size 63 x 25,5 x 25,5 mm
- Cutout size 59 x 22 mm
- Includes mounting material and LocoNet cable

Abb. 1:1

Part No. 63 440 LocoNet Panel display

`LN` `DIGITAL 2`

Deliverable from March 2005.

INFO LISSY
THE INDIVIDUAL LOCOMOTIVE CONTROL SYSTEM

LISSY consists of an Infrared transmitter, which are installed under the vehicle, and a receiver module, whose Infrared sensors are both built into the track.

The locomotive address and train category sent by the Infrared transmitter are recognized by the receiver and conveyed to the LocoNet, without the need of a computer, to activate various automatic control functions:

Train recognition • Block section control • Shuttle train control • Train dependent shadow station control • Speed measurement • Train control system (switches situation-dependent special functions of different locomotives).

The LISSY system works without track isolation, without additional components and without the need for a computer. It can easily be retro-fitted into a model railway layout.

MOBILE STATION ADAPTER

CONNECTS THE NEW WORLD TO THE LOCONET WORLD

The mobile station adapter connects a Märklin mobile station 63 810 with the LocoNet connection of a digital center. With the adapter the mobile station can be used as an additional hand control for locomotive control at the LocoNet center, e.g. Intellibox, DAISY or TwinCenter. Together with the 6021-Infrared & LocoNet adapter it is also possible to run the system from a Märklin 6021control unit.
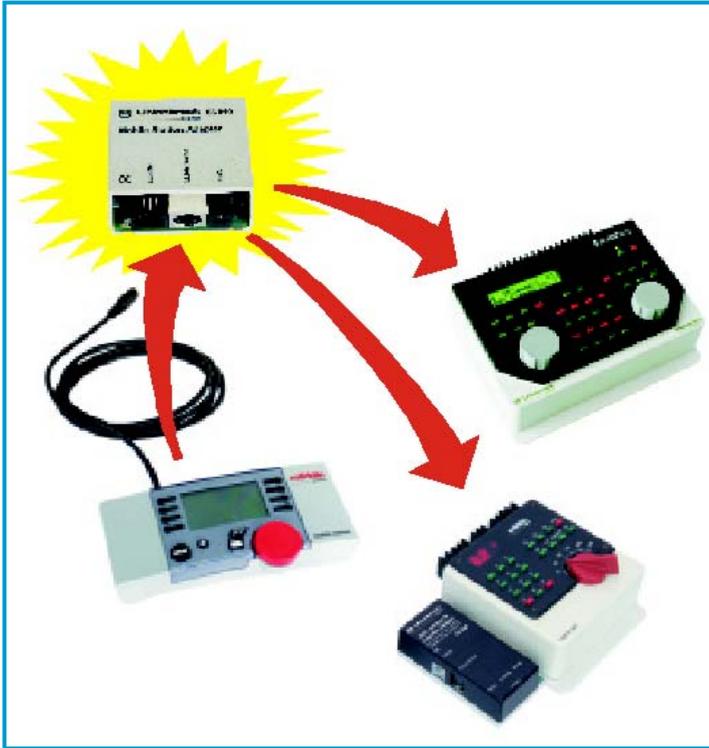
In addition with the adapter the functionality of the mobile station is extended. Normally the mobile station cannot control solenoids. With our adapter it is possible from a LocoNet center.

All control functions are available, all special functions adjustable. The internal data base can be fully used. Using the function keys turnouts can be switched.

Part No. 63 810 mobile station Adapter

Available now.

TRACK DIAGRAM PANEL

MADE BY UHLENBROCK

Electronics of the two track diagram panels from Erbert Modellbahn-Technik and Modelltec come from Uhlenbrock. They are compatible with the Intellibox and other centers with LocoNet connection.

The new track diagram panels are attached directly to the LocoNet. The connectors of the individual modules are connected by 6 way flat cables. That avoids the time consuming and laborious soldering of the cables. That means a fast, simple and clear wiring with short cable runs.

DIGITAL 2

Further Information is available from

Erbert Modellbahn-Technik
Bodenweg 9
36266 Heringen

Modelltec GmbH
Breitenbachstr. 11-12
13509 Berlin
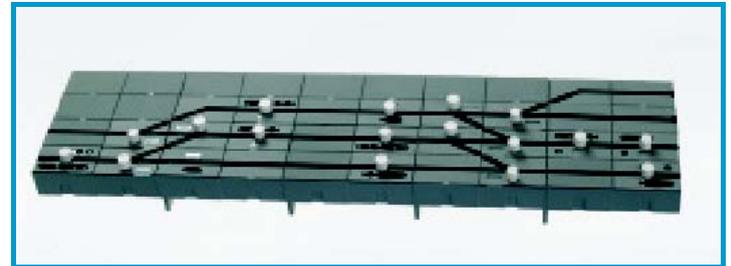
Erbert Modellbahn-Technik
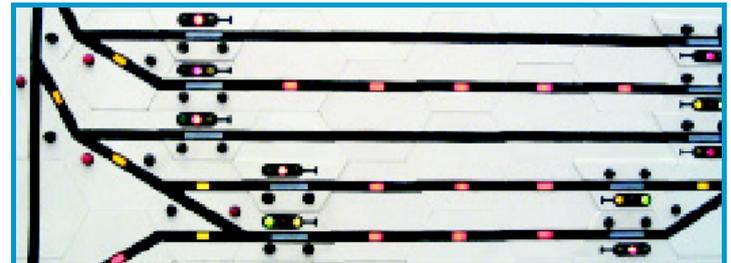
Modelltec

UHLENBROCK CD-ROM 2005
With the Title „Technology for Model Railways" you will find our products, all descriptions and manuals, FAQs, Tips und Tricks und much more.

Part No. 18 040

CALALOG
Our catalog is available for 3.50 EUR from our dealers. Direct from us by mail for 5.00 EUR in postage stamps or ordered from Homepage.

WWW.UHLENBROCK.DE
For the best actual information about the Intellibox, a price or dealer list or various publications in PDF format for download visit our website.

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