

| cv | Name | Descripition | Range | Value* |
| :---: | :---: | :---: | :---: | :---: |
| 109 | Binkgenerato phase 1 |  | 0.255 | 0 |
| 110 | Binkgeneatior phase 2 |  | 0.255 | 0 |
| 111 | Bink geneatio on | Bink generatio swich on tine in 100ms steps | 0.255 | 5 |
| 112 | Bink generato of | Bink geneataio swict of fitine in 100 ms steps | 0.255 | 5 |
| ${ }^{113}$ | A1-AA fomad off |  | 0.30 | 0 |
| 114 | A1-A4 bagkurd off |  | 0.30 | 0 |
| $\begin{aligned} & 116610 \\ & \hline 121 \end{aligned}$ | Dimming A0-A4 | $0=$ ouputuffi, 63 output $100 \%$ | 0.255 | ${ }^{63}$ |
| 124 | electr: ouping | Coupling repefitions atil - -4 ( $0=$ no ocupling) | 0.255 | 1 |
| ${ }^{125}$ | eleatr. ouping |  | 0.255 | 10 |
| 126 | eletricoupling | Hoding tine ofthe couplig, value" 100 ms | 0.255 | 20 |
| 127 | eleatricuping | Break kine ofthe couping, value 100 ms | 0.255 | 10 |
| 128 | electr: couping | Hoding PWM | 0.255 | 30 |
| 129 | eleatricouping | Assigmment fo ouputis A1-A4, bit 1- 4 - A1 - A4 | 0.255 | 0 |
| $\left\{\begin{array}{\|c\|c\|c\|} \hline 550 \\ \hline 15 \end{array}\right.$ | Seoond diming AO- A4 | Seoond dimming A0-AA, 0 Offi, $63=100 \%$ | 0.255 | 10 |
| $1 \begin{aligned} & 170015 \\ & \hline 150 \end{aligned}$ | PuM history | Assigmment A0 A4, cousse 1-8 | 0.255 | 0 |
| 178 | PuM hisooy | Period duraion ofthe playadk (alues 8 64ms) | 0.255 | 15 |
| 179 | PWM history, <br> phase position | $\begin{array}{ll}\text { Bit } 0-4=0 & \text { A0h }-A 4->\text { phase position } 0^{\circ} \\ \text { Bit } 0-4=1 & A 0 h-A 4->\text { phase position } 180^{\circ}\end{array}$ | 0.255 | 0 |
| 181 | Fireox ficier |  | 0.255 | 0 |
| 182 | Firebox ficier | Bit 0-3 -> Change flicker rhythm (value range 1 to 15) <br> Bit 4-6 -> Change brightness (value range $16,32,48,64,80,96,112$ ) <br> Bit $7=1->$ Output always bright (can be combined with Bit 4-6) | 0.255 | 0 |
| 183 | Enegy savig lampefiect |  | 0.255 | 0 |
| 184 | Enegy saing lanp efiect | Basic bighthess | 0.63 | 10 |
| 185 | Enegy savig amp efiect | Time unilil maximum bighthess is reached (values 5 ms) | 0.255 | 100 |
| 186 | Show and hide |  | 0.255 | 0 |
| 187 | Show and hide | Fade tine (value 10 (0ns) | 0.255 | 30 |
| 188 | Neon lights swich on enfectit |  | 0.255 | 0 |
| 189 | Neon lights swich on enfectit | Flasht ine (value smis) | 0.255 | 20 |
| 190 | Neon lights swich on enfeatt | maxinum fash ount | 0.255 |  |

NOTE: If this function decooder 456124 is used ina control car BDE EW II of the SBB, the following changes must
be obsened:





## sime







##  <br> PIKO Spielwaren Lutherstr 30 9615 Sonneberg <br> 96515 Sonnebe GERMANY

\# 56124 or DCC with RailCom+ ${ }^{\circledR}$ and Motorola ${ }^{\oplus}$
-1. - Properties



- All 0 outputs adiustable depending on direction of trap

- Simple function mapoping, FOF-F12



Energy saing lamp effect

Connecions for LISSY mini transmiter 68410
- Al outpuls protected daginst overloal


Descripion
The tunction d
The function decoderis a small fficiont Multiprotococl decooder. It tan be used with in DCC and Motorola Digital







## Installation of the Function decoder

Connector plug
Pepending onte lighting board used, plug the 5 -and 7 -pin
connectors

## Arse the p rovideded double sideed adhes



A short tircuit with the Motor, Iighting third raili pickup and wheels can destroy the device and eventualy the locomotive electronics

Digital operating
Commissioning the de



Delivery state
The decoder is

Fo switches Aov vand A Oh, dirica ion-depenondent

${ }^{\text {F4 swicheses } A 4}$









CV 43 Function key $F 9$
CV 4 F Function
CV 45 Function
Fey $F 11$
Direction-dependent outputs A1 - A4


In CVs 113 (dyencecion ouputs A1 - A4
-A4 is to be sumitheded off in each case. If if such an on ouputit is switched on via a a function hey, it


Dim outputs
Dim outputs
The funcion

Show and hide outputs
I 1 the oututis
s suitched on
In CV 188 you can define which outurut bhould 9 get this s fade funtuction.


 The esting of CV188
Slinking outputs
The tuncion decooter has a flash generator that can be ssigned to the outurbs





## 

 CVV 183 you can define which output should get this effect.


utputs with sum of the individual values is possibl.












Acombination (sum of the individul values is possible.
CV182 the setinas oro the ficker ryyth, as well
os of the brighness change are entered as follow.

 the ficicering vevilue can be programmed ina $a v$, the fickering results tom the sum of the single values of Control of a a electric Counling in diferent, random ficker images.







CV127 $=$ Swith-off fin
CV128
Cult

.
Swith outputs to a second dimming (e.g. darkere lighting or high beam)
The function outputs can be set to an altemative, i.e. second dimming (e.g. for





## Reset to factory seting (Reset)


To rese the decooder to factory setings, two CVs (CVV, CV59) can be used in DCC programming, one CV




Programming

 rogramming with a DCC digital pane.
Programming of long addresseses without the programming menu
If programming

 -Take the esult $(7)$ and add itto 192
Program the ereminder (208) int CV18.
Programming by a Märkint central Unit e.g. 6021 )



2. Select the deocoders adderes and turn the light on
 3b. With station
12 seconds
4.Enter he nu num




## Technical Data Addresses: 1 1-999




