DCC Function Decoder

HDM01C - HDM01D

3=FD 2=FC 1=FB

Ω

Ω

Ω

Ω

0=FA

Ω

n

Value Bit: 7 6

0 0 0

0 0 0

0 0 0 0

0 0 0 0

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0 0

CV Discription

120 F0 (forward FL)

121 F0 (backward FR)

F1 (forward)

123 F1 (backward)

124 F2 (forward)

126 F3 (forward)

128 F4 (forward)

130 F5 (forward)

125 F2 (backward)

127 F3 (backward)

129 F4 (backward)

131 F5 (backward)

133 F6 (backward)

135 F7 (backward)

137 F8 (backward)

139 F9 (backward)

140 F10 (forward)

142 F11 (forward)

141 F10 (backward)

143 F11 (backward)

145 F12 (backward)

147 F13 (backward)

149 F14 (backward)

151 F15 (backward)

144 F12 (forward)

146 F13 (forward)

148 F14 (forward)

150 F15 (forward)

152 F16 (forward)

153 F16 (backward)

155 F17 (backward)

157 F18 (backward)

159 F19 (backward)

161 F20 (backward)

154 F17 (forward)

156 F18 (forward)

158 F19 (forward)

160 F20 (forward)

162 F21 (forward)

164 F22 (forward)

163 F21 (backward)

165 F22 (backward)

167 F23 (backward)

169 F24 (backward)

171 F25 (backward)

173 F26 (backward)

175 F27 (backward)

F28 (backward)

Moving (forward)

181 Moving (backward) 182 DCC A

166 F23 (forward)

168 F24 (forward)

170 F25 (forward)

172 F26 (forward)

174 F27 (forward)

176 F28 (forward)

178 Stop (forward)

179 Stop (backward)

183 DCC B

132 F6 (forward)

134 F7 (forward)

136 F8 (forward)

138 F9 (forward)

	OO I allocion Decoder					
C۷	Range		Discription			
1	199	3	Primary Address			
7		3	Manufacturer Version No.			
8		13	Manufactured ID			
13	0255	0	Active functions F1 to F8 in analog			
	Bit:		0	1		
	0	0	F1=off	F1=on		
	1	0	F2=off	F2=on		
	2	0	F3=off	F3=on		
	3	0	F4=off	F4=on		
	4	0	F5=off	F5=on		
	5	0	F6=off	F6=on		
	6	0	F7=off	F7=on		
	7	0	F8=off	F8=on		
14	063	3			F9 to F12 in analog	
17	Bit:		0	1	1 5 to 1 12 iii analog	
	0	1	FL=off	FL=on		
	1	1	FR=off	FR=on		
	2	0	F9=off	F9=on		
	3	0	F10=off	F9=011 F10=on		
	-	-				
	4	0	F11=off	F11=on		
47	5	0	F12=off	F12=on	-\	
17	192231	192	Long address (high byte)			
18	0255	3	Long address (low byte)			
29	D::	2	Configuration byte			
	Bit:					
	0	0		ection	Reverse Direction	
	1	1	14 steps		28/128 steps	
	2	0	DCC only		DCC and Analog	
	3	0				
	4	0	01			
	5	0	Short address		Long address	
	6	0				
	7	0				
33	07	0	Effect Selection, output FA			
			0: Incandescent light			
			1: Fluorescent			
			2: Fluorescent broken			
			3: Fluorescent broken (end of live)			
			4: Flash A			
			5: Flash A (other fase)			
			6: Flash B			
			7: Flash B (other fase)			
34	07	0	Effect Selection, output FB See CV33			
35	07	0	Effect Selection, output FC See CV33			
36	07	0	Effect Selection, output FD See CV33			
37	015	15	Maximum brightness output FA			
38	015	15	Maximum brightness output FB			
39	015	15	Maximum brightness output FC			
40	015	15	Maximum brightness output FD			
50	0255	12	Flash A active period (in 8ms)			
51	0255	12	Flash A inactive period (in 8ms)			
52	0255	12	Flash B active period (in 8ms)			
53	0255	12	Flash B inactive period (in 8ms)			

Locomotives up to address 9999 Control of the exits selectable between F0 and F28

Selection between 4 independent exits of function or inner illumination with fluorescent light effect.

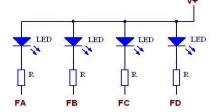
The 4 ports can be selected individually.
Blinking frequents selectable.
Selection of active functions in analogical way.

Max. 500mA for each port with total Max. of 800mA PCB 14mm x 23mm

Connections:

J or Black = Digital ground K or Red = Digital Power FA or White = Port 1 FB or Yellow = Port 2 FC or Green = Port 3 FD or Violet = Port 4

V+ or Blue = common Port power



HDM01C has 4 outputs FA, FB, FC, FD HDM01D has 3 outputs FA, FB, FC

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18/12/2021

English

Liability disclaimer:

Use all items that can be bought and installation instructions that can be found on this site at your own risk. They have been developed for personal use, and I find them very useful. That is why I wish to share them with other model railroad hobbyists. All items and procedures have been tested and used on my own model railroad systems without causing any damage, but this does not necessarily imply that all modifications and procedures will work in any and all environments or systems. I cannot take any responsibility when items or procedures are used under different circumstances. Always use your own judgment and common sense!