

**ITEM 100186 HBA-100186**

Description	Technical data	Accessories	Downloads
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**Features**

- › Handwheel 100 pulses, wear-free magnetic detent mechanism
- › 1 enabling switch, 3-stage, 2 NO contacts each

**Approvals**



**Mechanical values and environment**

Material	Polycarbonate
Weight	Net 1,0 kg
Ambient temperature	0 ... 50 °C
Atmospheric humidity (condensation not permissible)	max.80 % rH

Degree of protection	IEC529 IP65 <sup>[1]</sup> Acc. to Nema 205-12 <sup>[2]</sup>
Resilience to vibration	Vibrations (3 axes) DIN/IEC 68-2-6 Shock (3 axes) DIN/IEC 68-2-27
Connection	Plug connector <sup>[3]</sup>
Cable length	coiled 3,5 m <sup>[4]</sup>
Detent positions per revolution	Handwheel 100 <sup>[5]</sup>

### Electrical connection ratings

Operating voltage DC	Handwheel 5 V DC -5% ... 5%
Switching voltage	Enabling switch max.AC/DC 42 V
Switching current	Enabling switch max.100 mA
EMC protection requirements	Acc. to CE EN 61000-6-2, EN 61000-6-4
Type of output	Handwheel RS422
Connecting cable	23x0.14mm <sup>2</sup> <sup>[6]</sup>
Pulses per revolution	Handwheel 2x100
Breaking capacity (VA)	Enabling switch max.0,25 VA

### Controls and indicators

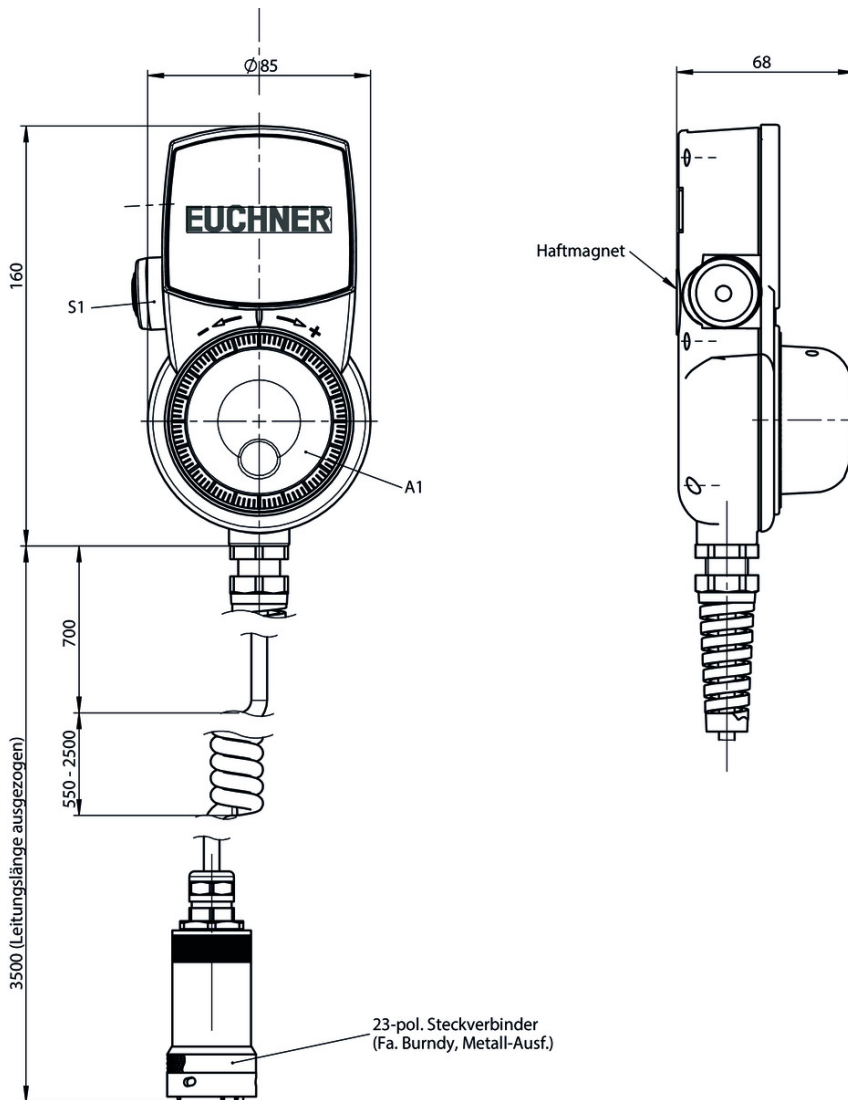
Control/indicator	1
Version	Enabling switches, 3-stage
Switching element	2 NO contacts
Special features	-
Color	Black
Item	See data sheets
Control/indicator	1
Version	Handwheel
Switching element	-
Special features	-
Color	Black plastic adjusting wheel
Item	See data sheets

### Miscellaneous





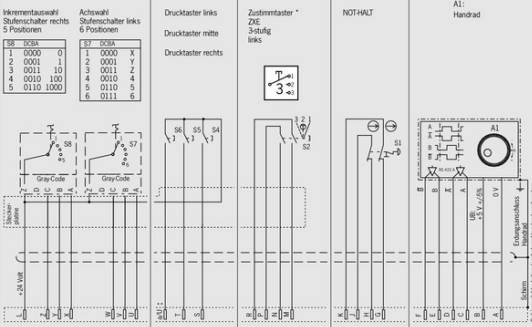
Color	Housing	Gray RAL 7040
For the approval according to UL the following applies		Operation only with UL class 2 power supply, or equivalent measures

- [1, 2] On the front
- [3] 23-pin, metal version
- [4] Extended
- [5] Magnetic detent mechanism
- [6] Screened

### Dimension drawing



## Circuit plan

Ausführung/Artikel	Merkmale					Best. Nr.																																		
	2 Stufenschalter 5 und 6 Positionen	3 Folien- drucktaster je 1 Schließer	1 Zustimmaster ZXE 3-stufig	NOT-HALT- Einrichtung	Handrad 100 Impulse																																			
HBA - 100 186 			●		●	100 186																																		
HBA - 100 212 	●		●	●	●	100 212																																		
HBA - 100 213 		●	●	●	●	100 213																																		
HBA - 100 194 	●	●	●	●	●	100 194																																		
<b>Verdrahtungsplan</b>	 <p>Inkrementauswahl Stufenschalter rechts 5 Positionen</p> <table border="1"> <thead> <tr> <th>SE</th> <th>DOBA</th> <th>ES7</th> <th>DOBA</th> </tr> </thead> <tbody> <tr><td>1</td><td>0000</td><td>0</td><td>1 0000</td><td>X</td></tr> <tr><td>2</td><td>0001</td><td>1</td><td>2 0001</td><td>Y</td></tr> <tr><td>3</td><td>0011</td><td>10</td><td>3 0011</td><td>Z</td></tr> <tr><td>4</td><td>0010</td><td>100</td><td>4 0010</td><td>4</td></tr> <tr><td>5</td><td>0110</td><td>1000</td><td>5 0110</td><td>5</td></tr> <tr><td>6</td><td>0111</td><td>6</td><td>6 0111</td><td>6</td></tr> </tbody> </table> <p>Achtwahl Stufenschalter links 8 Positionen</p> <p>Drucktaster links Drucktaster mitte Drucktaster rechts</p> <p>Zustimmaster * ZXE 3-stufig links</p> <p>NOT-HALT</p> <p>A1: Handrad</p> <p>* Schaltwegdiagramm siehe Seite 6 ** Steckerkontakt U bei HBA - 100 213 (Steckerkontakt a bei HBA - 100 194 (Steckerkontakt b bei HBA - 100 194</p>					SE	DOBA	ES7	DOBA	1	0000	0	1 0000	X	2	0001	1	2 0001	Y	3	0011	10	3 0011	Z	4	0010	100	4 0010	4	5	0110	1000	5 0110	5	6	0111	6	6 0111	6	
SE	DOBA	ES7	DOBA																																					
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4	0010	100	4 0010	4																																				
5	0110	1000	5 0110	5																																				
6	0111	6	6 0111	6																																				

## Mounting accessories

### Holder for HBA



**072828** HALTER HBA072828

#### Features

- › Plastic holder
- › gray



**100221** HALTER HBA-100221

#### Features

- › Plastic holder
- › Black



**072935** HALTER HBA M

#### Features

- › Plastic holder
- › gray
- › Handwheel can be operated in the holder



### **109979** HALTER HBA-109979

#### ▼ Features

- › Plastic holder
- › Black
- › Handwheel can be operated in the holder

## Function expansion

### ▼ Flange connector, 23-pin

**074384** 23POL/METALLAUSFUEHRUNG-074384

### ▼ 23-pin short-circuit plug

**083457** 23POL/METALLAUSFUEHRUNG-083457

### ▼ Extension cable 23-core, straight



**091466** 23POL/5M/METALLAUSFUEHRUNG-091466

#### ▼ Features

- › Extension cable
- › Flange plug connector with socket contacts, 23-pin
- › Plug connector with male contacts, 23-pin
- › Bayonet plug lock
- › PUR cable
- › Cable length 5 m, straight



**091467** 23POL/10M/METALLAUSFUEHRUNG






#### ▼ Features

- › Extension cable
- › Flange plug connector with socket contacts, 23-pin
- › Plug connector with male contacts, 23-pin
- › Bayonet plug lock
- › PUR cable
- › Cable length 10 m, straight

## Instructions

### ▼ Betriebsanleitung Elektronisches HBA-Handrad mit magnetischer Rastung


**Doc. no.**   **Version**   **Language**   **Download**







Betriebsanleitung Elektronisches HBA-Handrad mit magnetischer Rastung Mode d'emploi de la manivelle électronique pour pupitre portable HBA avec crantage magnétique Istruzioni di impiego volante elettronico per HBA con autoritenuta magnetica Operating instructions for electronic HBA handwheel with magnetic detent	105823	02-04/09	   	 0.6 MB
Manual de instrucciones del volante HBA electrónico con parada magnética	105823	02-04/09		 0.2 MB
Návod k použití – elektronické ruční kolečko HBA s magnetickou aretací	105823	02-04/09		 0.2 MB
Инструкция по эксплуатации электронного маховичка HBA с магнитной фиксацией	105823	02-04/09		 0.3 MB

 **Návod k použití ručních ovladačů HBA**

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Betriebsanleitung Handbediengeräte HBA Mode d'emploi des pupitres portables HBA Istruzioni di impiego dispositivi di comando manuale HBA Operating instructions for hand-held pendant stations HBA	2072850	07-03/18	   	 0.8 MB
Manual de instrucciones de las botoneras HBA	2072850	07-03/18		 0.2 MB
Návod k použití ručních ovladačů HBA	2072850	07-03/18		 0.3 MB
Инструкция по эксплуатации ручных устройств управления HBA	2072850	07-03/18		 0.4 MB







## Catalogs

 **Handbediengeräte/Handräder Hand-Held Pendant Stations/Handwheels Pupitres portables/Manivelles**

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Handbediengeräte/Handräder	098619	08-09/17		 3.0 MB
Pupitres portables/Manivelles	111529	08-09/17		 3.0 MB
Hand-Held Pendant Stations/Handwheels	099443	08-09/17		 3.0 MB

## Declaration of conformity

 **EU-Konformitätserklärung**

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2109732	05-08/16	    	 0.2 MB