

ITEM 100212 HBA-100212

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
- › Tamper-proof EMERGENCY STOP device according to EN 13850, dual-channel
- › 1 selector switch with 6 positions (X, Y, Z, 4, 5, 6)
- › 1 selector switch with 5 positions (0, 1, 10, 100, 1000)

Approvals



Mechanical values and environment

Material	Polycarbonate
Weight	Net 1,2 kg
Ambient temperature	0 ... 50 °C

Atmospheric humidity (condensation not permissible)	max.80 % rH
Degree of protection IEC529 Acc. to Nema	IP65 [1] 205-12 [2]
Resilience to vibration Vibrations (3 axes) Shock (3 axes)	DIN/IEC 68-2-6 DIN/IEC 68-2-27
Connection	Plug connector [3]
Cable length coiled	3,5 m [4]
Detent positions per revolution Handwheel	100 [5]

Electrical connection ratings

Operating voltage DC Handwheel	5 V DC -5% ... 5%
Utilization category according to EN 60947-5-1 DC-13	30V DC / 1A
Switching voltage Enabling switch Selector switch	max.AC/DC 42 V max.15 V
Switching current Enabling switch Selector switch	max.100 mA max.20 mA
EMC protection requirements Acc. to CE	EN 61000-6-2, EN 61000-6-4
Type of output Handwheel	RS422
Connecting cable	23x0.14mm ² [6]
Pulses per revolution Handwheel	2x100
Breaking capacity (VA) Enabling switch Selector switch	max.0,25 VA max.0,2 VA

Controls and indicators

Control/indicator	1
Version	Emergency stop
Switching element	2 positively driven contacts
Special features	-
Color	Red-yellow
Item	See data sheets

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	Selector switch
Switching element	6-stage, Gray coded, detent angle 22.5°
Special features	-
Color	Black knob with marking
Item	See data sheets
Control/indicator	1
Version	Selector switch
Switching element	5-stage, Gray coded, detent angle 22.5°
Special features	-
Color	Black knob with marking
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

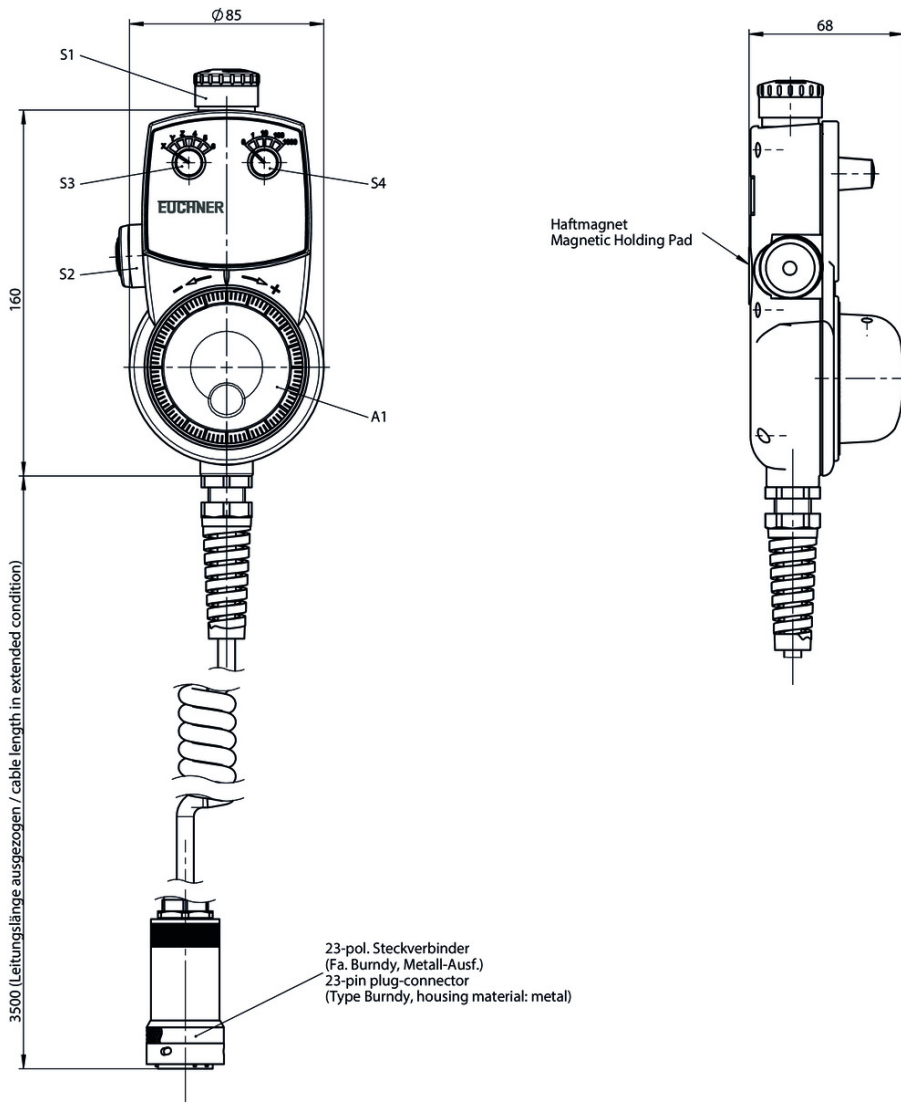
[3] 23-pin, metal version

[4] Extended





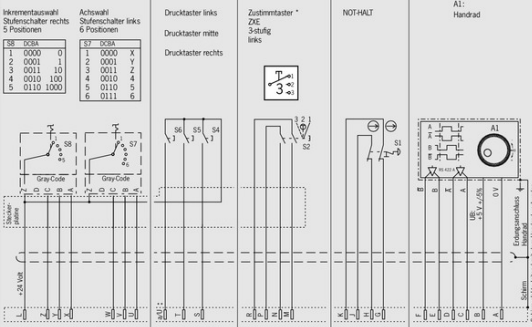
[5] Magnetic detent mechanism

[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																																		
Verdrahtungsplan	 <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	
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1	0000	0	1 0000	X																																				
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3	0011	10	3 0011	Z																																				
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



109979 HALTER HBA-109979

Features

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



072935 HALTER HBA M

▼ Features

- › Plastic holder
- › gray
- › 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**

	Doc. no.	Version	Language	Download
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**

	Doc. no.	Version	Language	Download
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**

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


 **EU-Konformitätserklärung**

Doc. no. Version Language Download

EU-Konformitätserklärung
EU declaration of conformity
Declaración UE de conformidad
Déclaration UE de conformité
Dichiarazione di conformità

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 0.2 MB