

## ITEM 103037 HBA-103037

Description	Technical data	Accessories	Downloads
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### Features

- › Handwheel 100 pulses, wear-free magnetic detent mechanism
- › Tamper-proof EMERGENCY STOP device according to EN 13850, dual-channel
- › 1 selector switch, 6 positions (0, Z, X, Y, 4, 5)
- › 6 membrane pushbuttons, 1 NO contact each
- › 1 enabling switch, 3-stage, 2 NO contacts

### Notes

- › Function compatible with Siemens MINI BHG

### Approvals



### Mechanical values and environment

Material	Polycarbonate
Weight	Net 1,3 kg
Ambient temperature	0 ... 50 °C
Atmospheric humidity (condensation not permissible)	max.80 % rH
Degree of protection	IEC529 IP65 <b>[1]</b> Acc. to Nema 205-12 <b>[2]</b>
Resilience to vibration	Vibrations (3 axes) DIN/IEC 68-2-6 Shock (3 axes) DIN/IEC 68-2-27
Connection	Plug connector <b>[3]</b>
Cable length	coiled 3,5 m <b>[4]</b>
Detent positions per revolution	Handwheel 100 <b>[5]</b>

### 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 max.AC/DC 42 V Selector switch max.15 V Membrane keypad max.AC 25 V Membrane keypad max.DC 42 V
Switching current	Enabling switch max.100 mA Selector switch max.20 mA Membrane keypad max.100 mA <b>[6]</b>
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> <b>[7]</b>
Pulses per revolution	Handwheel 2x100
Breaking capacity (VA)	Enabling switch max.0,25 VA Selector switch max.0,2 VA Membrane keypad max.1 VA <b>[8]</b>

## Controls and indicators

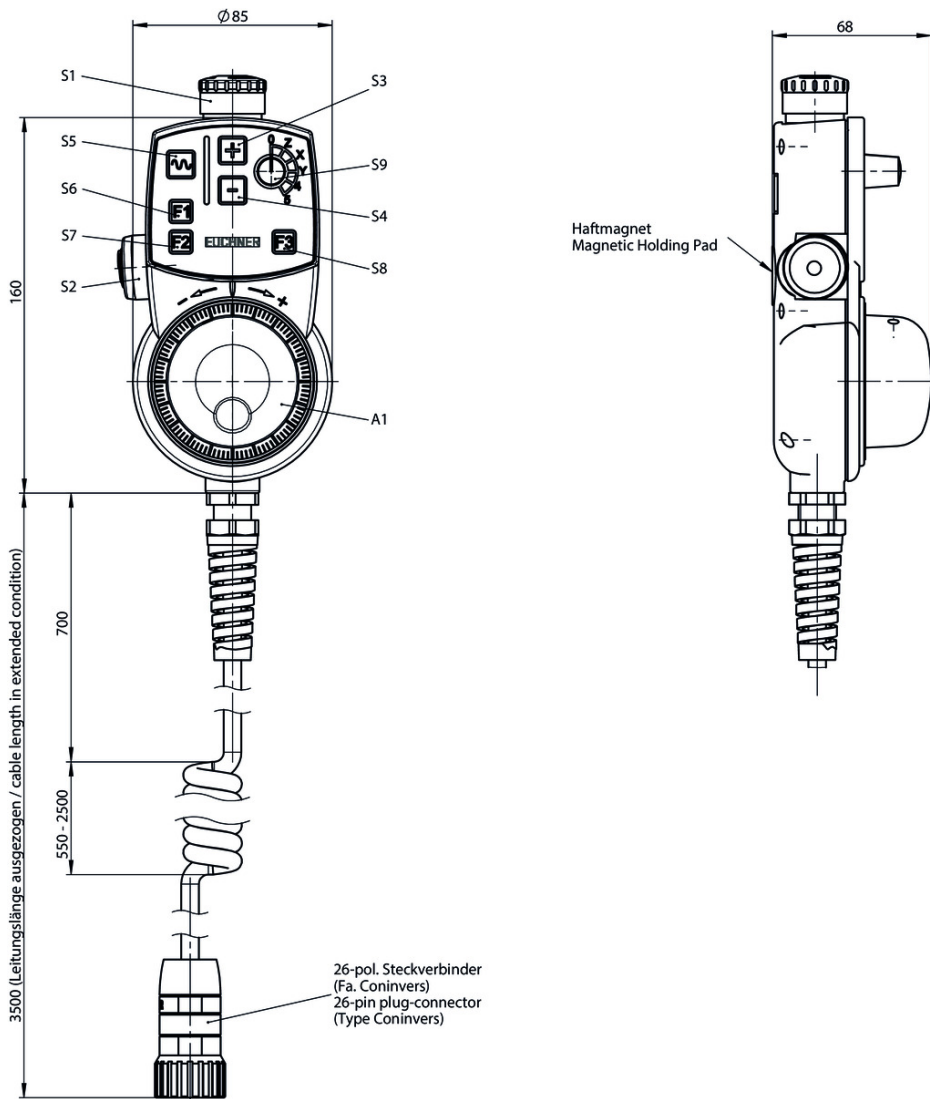
Control/indicator	1
Version	Emergency stop
Switching element	2 positively driven contacts
Special features	-
Color	Red-yellow
Item	See data sheets
Control/indicator	1
Version	Enabling switches, 3-stage
Switching element	2 NO contacts
Special features	-
Color	Black
Item	See data sheets
Control/indicator	1 [9]
Version	Selector switch
Switching element	6-stage, Gray coded, detent angle 30°
Special features	-
Color	Gray 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
Control/indicator	6
Version	Membrane key
Switching element	1 NO contact each
Special features	Labeled
Color	-
Item	See data sheets

## Miscellaneous



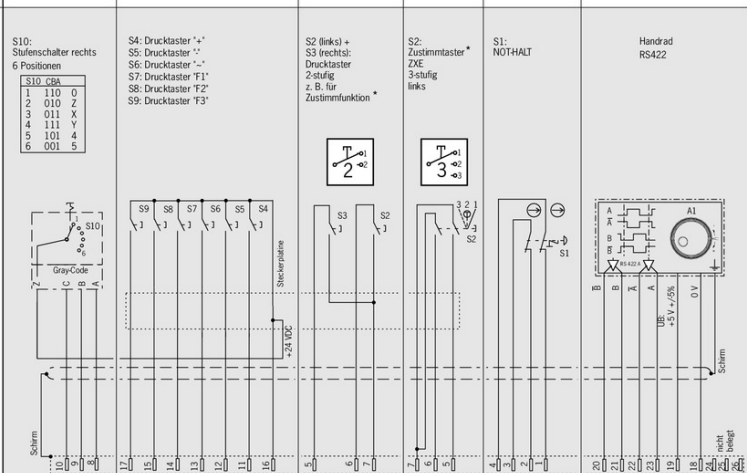
Color	Housing	Gray RAL 7040
For the approval according to UL the following applies		Operation only with UL class 2 power supply, or equivalent measures

- [1, 2] On the front
- [3] 26-pin, counter-rotation, metal version
- [4] Extended
- [5] Magnetic detent mechanism
- [6, 8] Common connection
- [7] Screened
- [9] Special Gray coding

**Dimension drawing**



## Circuit plan

Ausführung/Artikel	Merkmale						Best. Nr.														
	1 Stufenschalter 6 Positionen S10	6 Foliendrucktaster je 1 Schließer S4, S5, S6, S7, S8, S9	2 Druck- taster 2-stufig S2, S3	1 Zustimm- taster ZXE 3-stufig S2	NOT-HALT- Einrichtung S1	Handrad 100 Impulse A1															
HBA - 102 434 	●	●	●		●	●	102 434														
HBA - 103 037 	●	●		●	●	●	103 037														
<b>Verdrahtungsplan</b>	<p>S10: Stufenschalter rechts 6 Positionen</p> <table border="1"> <thead> <tr> <th>S10</th> <th>CBA</th> </tr> </thead> <tbody> <tr><td>1</td><td>110 0</td></tr> <tr><td>2</td><td>010 Z</td></tr> <tr><td>3</td><td>011 X</td></tr> <tr><td>4</td><td>111 Y</td></tr> <tr><td>5</td><td>101 4</td></tr> <tr><td>6</td><td>001 5</td></tr> </tbody> </table> <p>S4: Drucktaster "+" S5: Drucktaster "-" S6: Drucktaster "Z" S7: Drucktaster "X" S8: Drucktaster "Y" S9: Drucktaster "4" S2 (links): "+" S3 (rechts): Drucktaster "Z" S2 (links): Drucktaster "X" S2 (rechts): Drucktaster "Y" S2 (links): Drucktaster "4" S2 (rechts): Drucktaster "5" S2: Zustimmungstaster * ZXE 3-stufig links S1: NOTHALT</p> <p>Handrad RS422</p>  <p>* Schaltwegdiagramm siehe Seite 6</p>						S10	CBA	1	110 0	2	010 Z	3	011 X	4	111 Y	5	101 4	6	001 5	
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## Connection material

### Connection kit



**103042** ANSCHLUSSDOSE+KURZSCHLUS-26P-103042

## Mounting accessories

### Holder for HBA



**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



- 072828** HALTER HBA072828
- ▼ Features
    - › Plastic holder
    - › gray



- 100221** HALTER HBA-100221
- ▼ Features
    - › Plastic holder
    - › Black

## 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	2109732	05-08/16		 0.2 MB
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity				

### EU-Konformitätserklärung

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung	2105755	08-03/17		 0.2 MB
EU declaration of conformity				
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				

## CAD data

CAD data for this item on TraceParts