Sensor principle		MH-C	MH-C2
Electrical data			
Measuring range	°	0 ... 360	0 ... 360
Indep. linearitiy (without misalignment)	% of meas. range	±0.3	±0.3
Indep. linearitiy (with allowed misalignment @ 360°)	% of meas. range	±0.5	±0.5
Max. hysteresis	°	0.1	0.1
Resolution	bit	12	14
Max. repeatability	°	0.1	0.1
Sample rate fast mode	kHz	(5)	(2)
Sample rate slow mode	kHz	1.66	0.5
System propagation delay fast mode	µs	(800)	(800)
System propagation delay slow mode	µs	4600	2500
Max. temperature coefficient of the output signal	ppm/°K	50	50
MTTFd / MTBF	years	668 / 668	308 / 308
Power supply voltage	VDC	5 (±10%)	5 (±10%)
Current consumption without load (typ.) fast mode	mA	(14)	(15)
Current consumption without load (typ.) slow mode	mA	9	10
Min. ohmic load at output	kOhm	10	10
Max. capacitive load at output	nF	100	100
Reverse polarity protection of power supply		yes	no
Electrical connection axial		Wires (3x)	Wires (3x)
Cross section of single wires	mm²	0.25 (AWG24)	0.25 (AWG24)
Electrical connection radial		Cable 3pole	Cable 3pole
Cross section of single wires	mm²	0.25 (AWG24)	0.25 (AWG24)
Redundancy feasible		yes	no
Electrical connection redundant axial		Ribbon cable 6pole	-
Cross section of single wires redundant	mm²	0.09 (AWG28)	-
Electrical connection redundant radial		Cable 6pole	-
Cross section of single wires redundant	mm²	0.25 (AWG24)	-
Mechanical data			
Mechanical range	°	360 (continuous)	360 (continuous)
Protection class		IP68	IP68
Min. life	movements	no limitation	no limitation
Operating & storage temperature (with wires)	°C	-40 ... +125	-40 ... +85
Operating & storage temperature (with ribbon cable)	°C	-40 ... +105	-40 ... +85
Operating & storage temperature (with round cable)	°C	-40 ... +85	-40 ... +85
IEC 68-2-6 Vibration (Amax = 0.75mm, f = 5 … 2000 Hz)	g	50	50
IEC 68-2-27 Shock	g	200	200
Standards			
EN 55022 class B, Emission radiated (30... 230 MHz)	dB(µV/m)	max. 30	max. 30
EN 55022 class B, Emission radiated (230...1000MHz)	dB(µV/m)	max. 37	max. 37
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8	±4 / ±8
EN 61000-4-3, Immission HF radiated (80... 1000 MHz)	V/m	30	30
EN 61000-4-4, Burst (on all lines)	kV	±1	±1
EN 61000-4-5, Surge (lines to ground)	kV	±1	±1
EN 61000-4-6, Immission HF conducted (0.15...80MHz)	Vemk	10	10
EN 61000-4-8, Immission magnetic field (50Hz)	A/m	30	30
IEC 60393-1 Insulation resistance (500VDC, 1bar, 2s)	GOhm	20	20
IEC 60393-1 Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1	1

Vert-X 22E - 5V / 10...90% Ub

Applications
- Wind vanes
- Valve control
- Level sensor
- Special purpose vehicles

Features general
- High protection class IP68
- Flat design
- Non-contacting measuring method
- Very long life
- High accuracy of measurement
- Use in cramped installation conditions
- Full resolution and accuracy at programmed electrical angle

Features MH-C
- Resolution of 12bit
- Full redundancy possible
- Lower price than MH-C2

Features MH-C2
- Resolution of 14bit
- Index point(s), sense of rotation and angle settable resp. programmable by customer (optional)

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Vert-X 22E - 5V / 10...90% Ub Ordering code

*** Switch outputs**
Please define number (max. 127), position and width of the pulses.

Output characteristics

Positive gradient CW	Standard	1
Positive gradient CCW	Optional	2
Redundant, positive gradient CW	Optional	3
Redundant, positive gradient CCW	Optional	4
Redundant, crossed signal curves	Optional	5
Positive gradient CW with 1 switch output*	Optional	A
Positive gradient CCW with 1 switch output*	Optional	B
Positive gradient CW with 2 switch outputs*	Optional	C
Positive gradient CCW with 2 switch outputs*	Optional	D
Sense of rotation settable	Optional	E
Zero point & sense of rotation settable	Optional	F
Middle point & sense of rotation settable	Optional	G
Start + end point & sense of rotation settable	Optional	H
Programmable with Vert-X EasyAdapt	Optional	P

Output signal

10% ... 90% Ub	Standard	2
x% ... y% Ub (within 5 ... 95%)	Optional	3

Power supply voltage

5VDC	Standard	2

Electrical connection / axial

3	Optional	Wires 4pole
5	Standard	Wires 3pole
7	Optional	Ribbon cable 6pole
9	Optional	Special cable ; special wires

Electrical connection / radial

4	Standard	Round cable 3pole
6	Optional	Round cable 6pole
9	Optional	Special cable ; special wires

Length of wires / ribbon cable

01	Optional	10cm
03	Optional	30cm
05	Standard	50cm
99	Optional	Special length

Length of cable

02	Standard	1.0m
06	Optional	3.0m
10	Optional	5.0m
99	Optional	Special length

Vert-X	2	2	E	2		7	3	6		2	2	1		5	0	5

Electrical angle

36	Standard	Electrical angle 360°
xx	Optional	03 to 35; Declaration in 10° steps
99	Optional	Special angle

Sensor principle

7	MH-C
8	MH-C2

Mechanical version

22E1	Optional	Servo mount size 9 ; magnetic actuator type 1
22E2	Standard	Servo mount size 9 ; magnetic actuator type 2
22E9	Optional	Special housing ; special magnetic actuator

	MH-C	MH-C2
Custom magnetic actuator	X	X
Custom modification of the housing	X	X
Custom cable / wires	X	X
Interface x% ... y% Ub (within 5% ... 95% Ub)	X	X
Sample rate in fast mode	X	X
Switch functions TTL (max. 2)	X	X
Special characteristic curve	-	X
Special electrical angle within 30° to 360° (ex factory)	X	X
Electrical angle programmable (Software)	-	X
Start & end point settable (Additional wires)	-	X
Sense of rotation CW/CCW settable / programmable (Additional wires or Software)	-	X
Index point settable / programmable (Additional wires or Software)	-	X

Options (on request)

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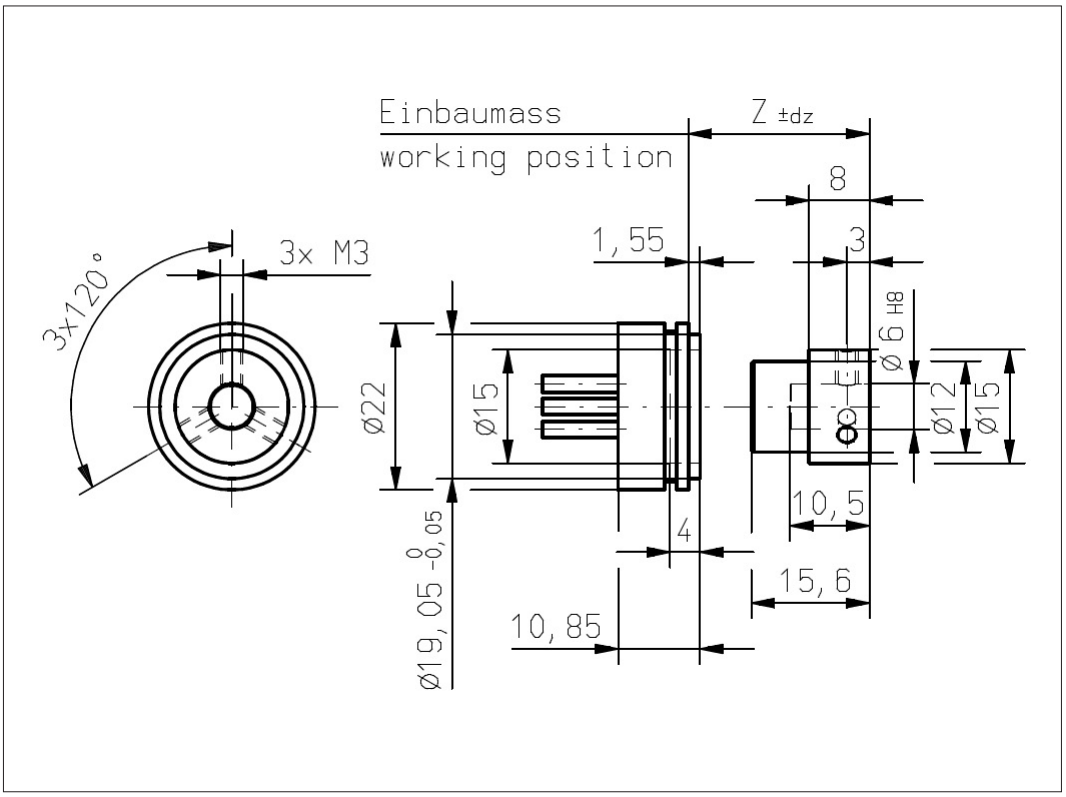
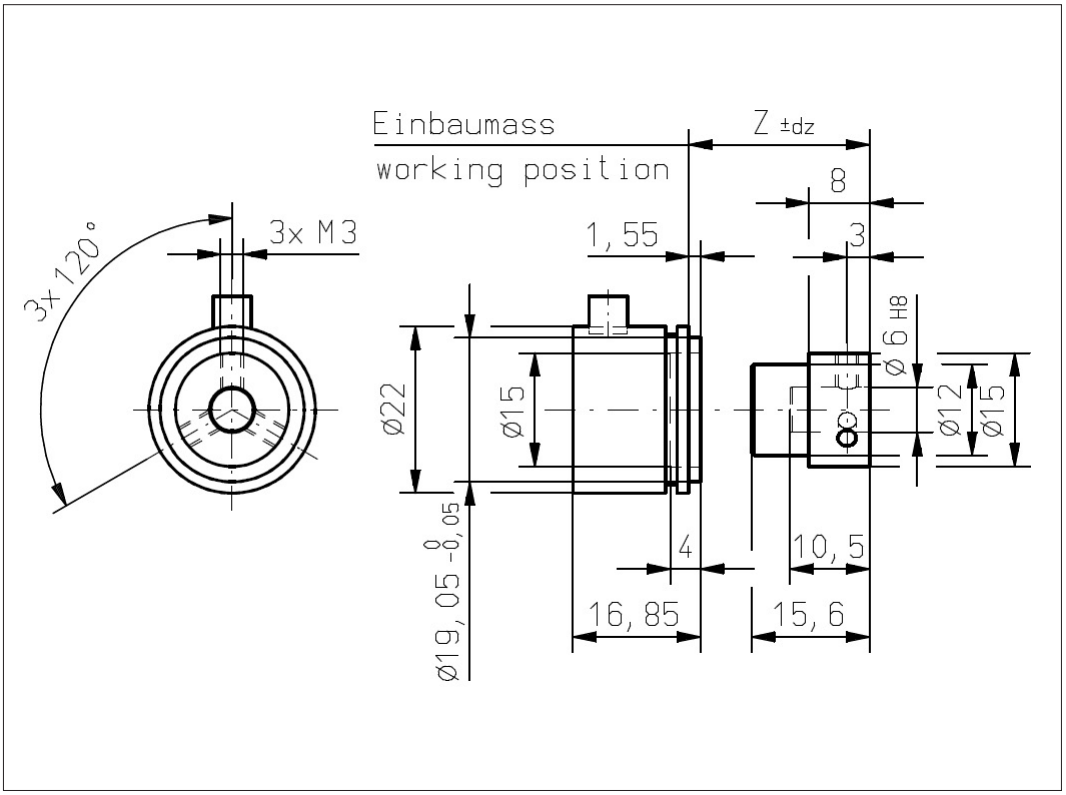


Vert-X 22E2 xxx xxx 5xx
Vert-X 22E2 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E2 xxx xxx 4xx
Vert-X 22E2 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information

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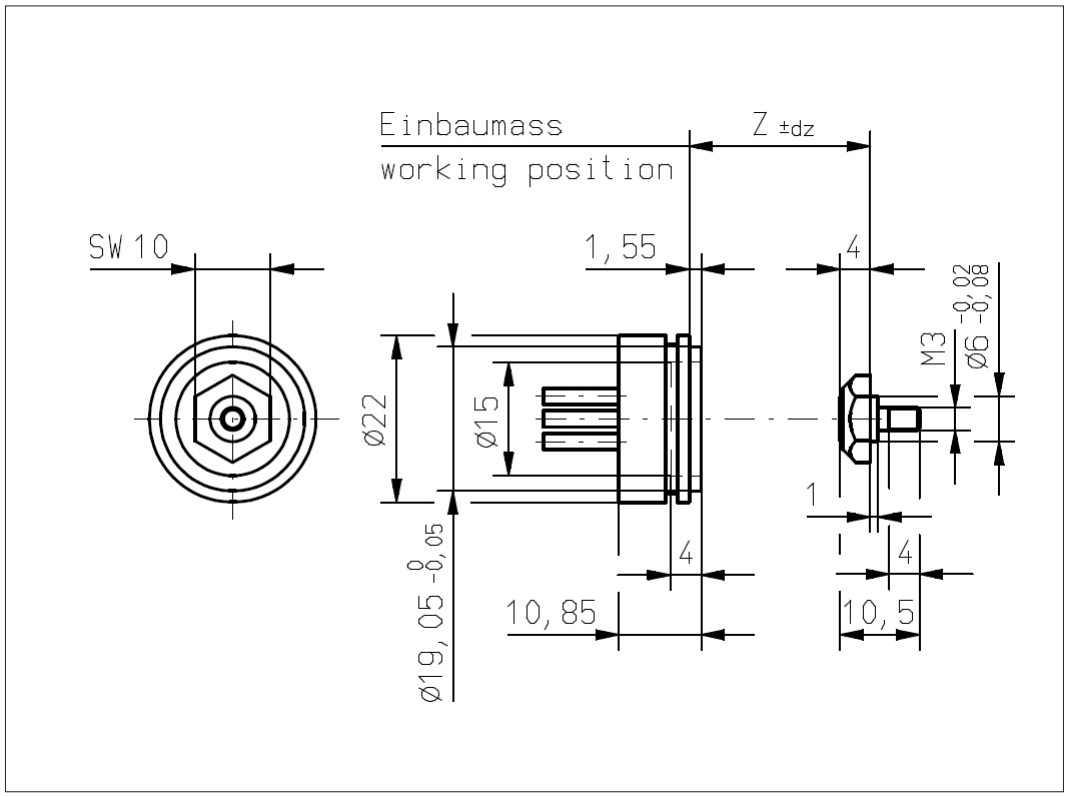
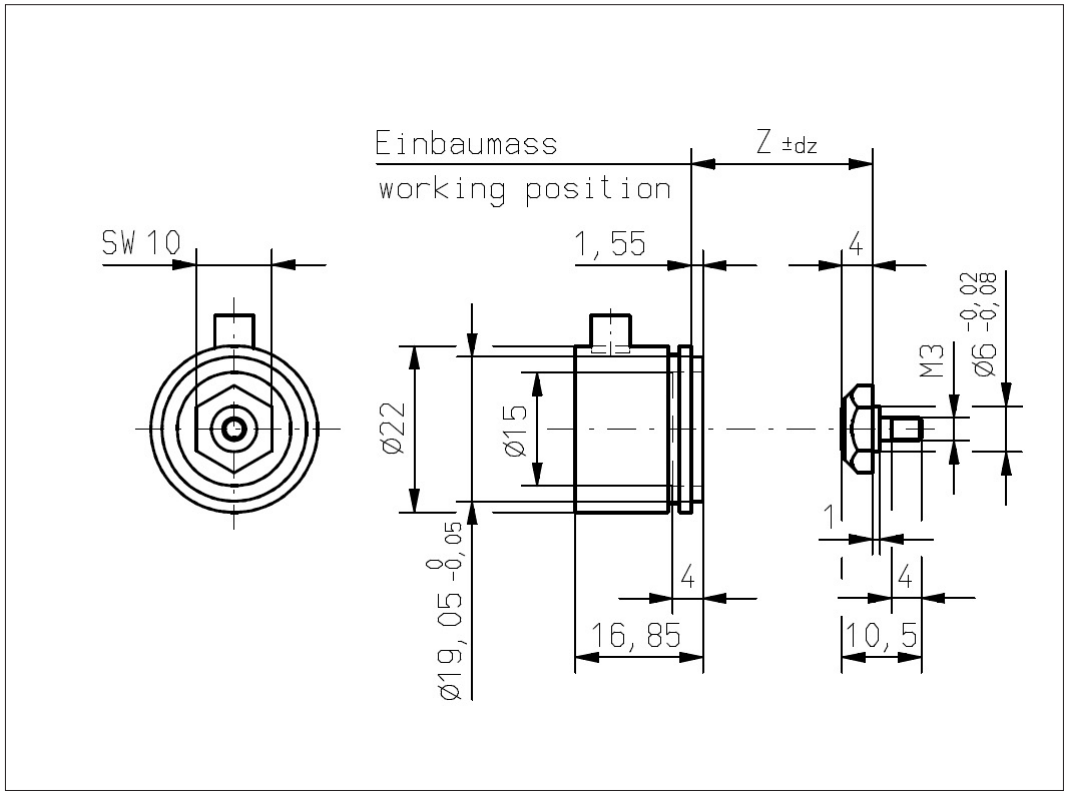


Vert-X 22E1 xxx xxx 5xx
Vert-X 22E1 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E1 xxx xxx 4xx
Vert-X 22E1 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information

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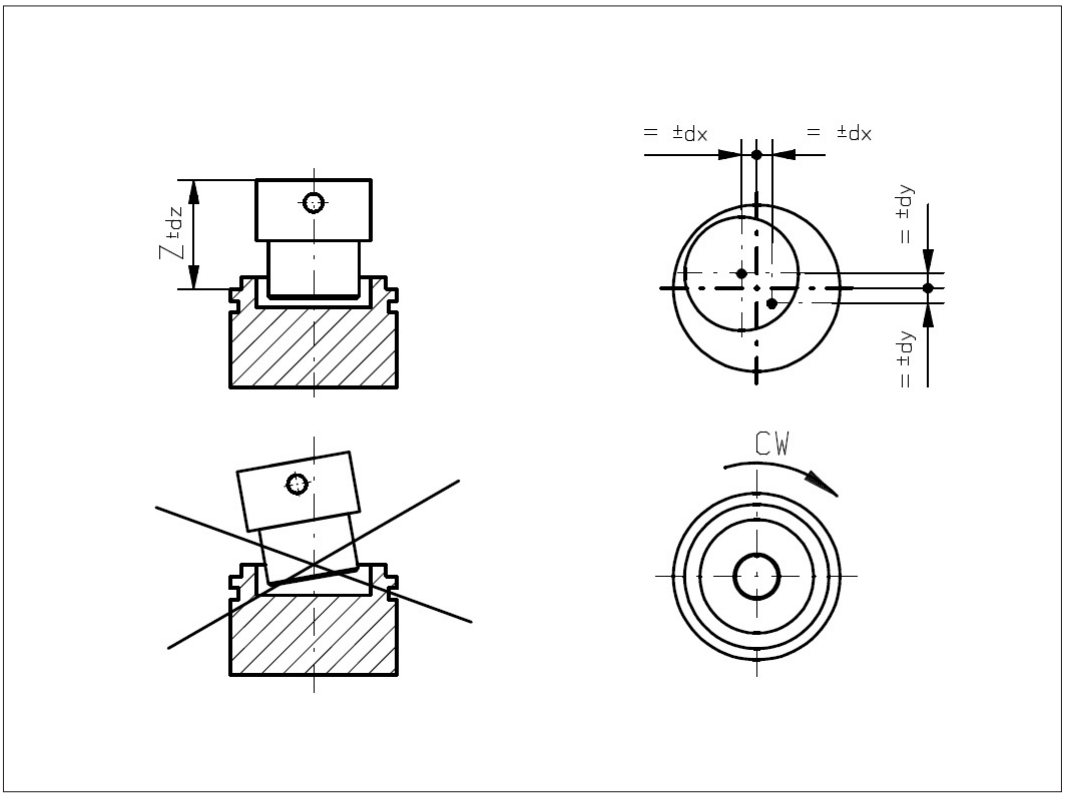


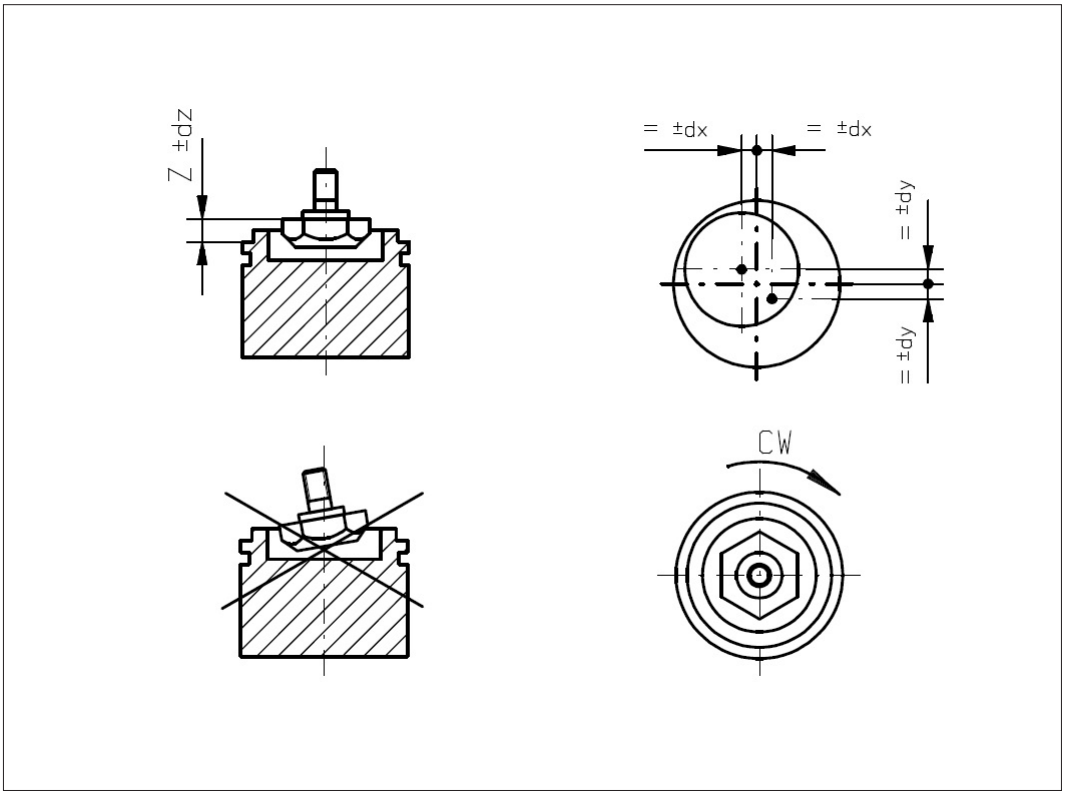
Vert-X 22E2
Mounting information

Working position (Z)

MH-C	14.40mm
MH-C redundant	13.90mm
MH-C2	14.40mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm



Vert-X 22E1
Mounting information

Working position (Z)

MH-C	3.00mm
MH-C redundant	2.50mm
MH-C2	3.00mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm

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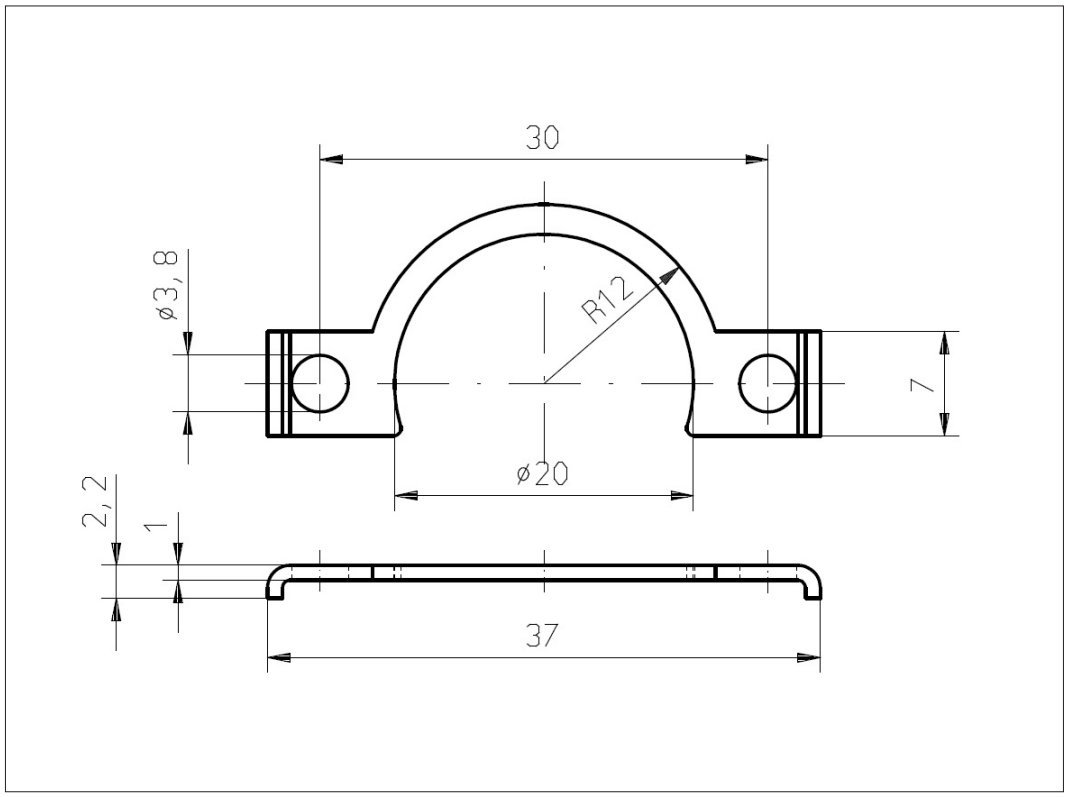

Vert-X 22E
Accessoires
Fixation clip

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Sensor principle		MH-C	MH-C2
Electrical data			
Measuring range	°	0 ... 360	-
Indep. linearitiy (without misalignment)	% of meas. range	±0.3	-
Indep. linearitiy (with allowed misalignment @ 360°)	% of meas. range	±0.5	-
Max. hysteresis	°	0.1	-
Resolution	bit	12	-
Max. repeatability	°	0.1	-
Sample rate fast mode	kHz	(5)	-
Sample rate slow mode	kHz	1.66	-
System propagation delay fast mode	µs	(800)	-
System propagation delay slow mode	µs	4600	-
Max. temperature coefficient of the output signal	ppm/°K	25	-
MTTFd / MTBF	years	668 / 668	-
Power supply voltage	VDC	5 (±10%)	-
Current consumption without load (typ.) fast mode	mA	(14)	-
Current consumption without load (typ.) slow mode	mA	9	-
Min. ohmic load at output	kOhm	10	-
Max. capacitive load at output	nF	1	-
PWM frequency	Hz	855 (±20%)	-
Reverse polarity protection of power supply		yes	-
Electrical connection axial		Wires (3x)	-
Cross section of single wires	mm²	0.25 (AWG24)	-
Electrical connection radial		Cable 3pole	-
Cross section of single wires	mm²	0.25 (AWG24)	-
Redundancy feasible		yes	-
Electrical connection redundant axial		Ribbon cable 6pole	-
Cross section of single wires redundant	mm²	0.09 (AWG28)	-
Electrical connection redundant radial		Cable 6pole	-
Cross section of single wires redundant	mm²	0.25 (AWG24)	-
Mechanical data			
Mechanical range	°	360 (continuous)	-
Protection class		IP68	-
Min. life	movements	no limitation	-
Operating & storage temperature (with wires)	°C	-40 ... +125	-
Operating & storage temperature (with ribbon cable)	°C	-40 ... +105	-
Operating & storage temperature (with round cable)	°C	-40 ... +85	-
IEC 68-2-6 Vibration (Amax = 0.75mm, f = 5 … 2000 Hz)	g	50	-
IEC 68-2-27 Shock	g	200	-
Standards			
EN 55022 class B, Emission radiated (30... 230 MHz)	dB(µV/m)	max. 30	-
EN 55022 class B, Emission radiated (230...1000MHz)	dB(µV/m)	max. 37	-
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8	-
EN 61000-4-3, Immission HF radiated (80... 1000 MHz)	V/m	30	-
EN 61000-4-4, Burst (on all lines)	kV	±1	-
EN 61000-4-5, Surge (lines to ground)	kV	±1	-
EN 61000-4-6, Immission HF conducted (0.15...80MHz)	Vemk	10	-
EN 61000-4-8, Immission magnetic field (50Hz)	A/m	30	-
IEC 60393-1 Insulation resistance (500VDC, 1bar, 2s)	GOhm	20	-
IEC 60393-1 Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1	-

Vert-X 22E - 5V / PWM

Applications

- Wind vanes
- Valve control
- Level sensor
- Special purpose vehicles

Features

- High protection class IP68
- Flat design
- Non-contacting measuring method
- Very long life
- High accuracy of measurement
- Use in cramped installation conditions
- Full resolution and accuracy at programmed electrical angle

Errors and omissions excepted. Subject to change without notice. / State: 31.10.11

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Vert-X 22E - 5V / PWM
Ordering code

Electrical connection / axial

5	Standard	Wires 3pole
7	Optional	Ribbon cable 6pole
9	Optional	Special cable ; special wires

Electrical connection / radial

4	Standard	Round cable 3pole
6	Optional	Round cable 6pole
9	Optional	Special cable ; special wires

Length of wires / ribbon cable

01	Optional	10cm
03	Optional	30cm
05	Standard	50cm
99	Optional	Special length

Length of cable

02	Standard	1.0m
06	Optional	3.0m
10	Optional	5.0m
99	Optional	Special length

Output characteristics

Positive gradient CW	Standard	1
Positive gradient CCW	Optional	2
Redundant, positive gradient CW	Optional	3
Redundant, positive gradient CCW	Optional	4
Redundant, crossed signal curves	Optional	5

Output signal

PWM	Standard	4

Power supply voltage

5VDC	Standard	2

Vert-X	2	2	E	2		7	3	6		2	4	1		5	0	5

Electrical angle

36	Standard	Electrical angle 360°
xx	Optional	03 to 35; Declaration in 10° steps
99	Optional	Special angle

Sensor principle

7	MH-C

Mechanical version

22E1	Optional	Servo mount size 9 ; magnetic actuator type 1
22E2	Standard	Servo mount size 9 ; magnetic actuator type 2
22E9	Optional	Special housing ; special magnetic actuator

	MH-C	MH-C2
Custom magnetic actuator	X	-
Custom modification of the housing	X	-
Custom cable / wires	X	-
Sample rate in fast mode	X	-
Switch functions TTL (max. 2)	X	-
Special characteristic curve	-	-
Special electrical angle within 30° to 360° (ex factory)	X	-
Electrical angle programmable (Software)	-	-
Start & end point settable (Additional wires)	-	-
Sense of rotation CW/CCW settable / programmable (Additional wires or Software)	-	-
Index point settable / programmable (Additional wires or Software)	-	-

Options (on request)

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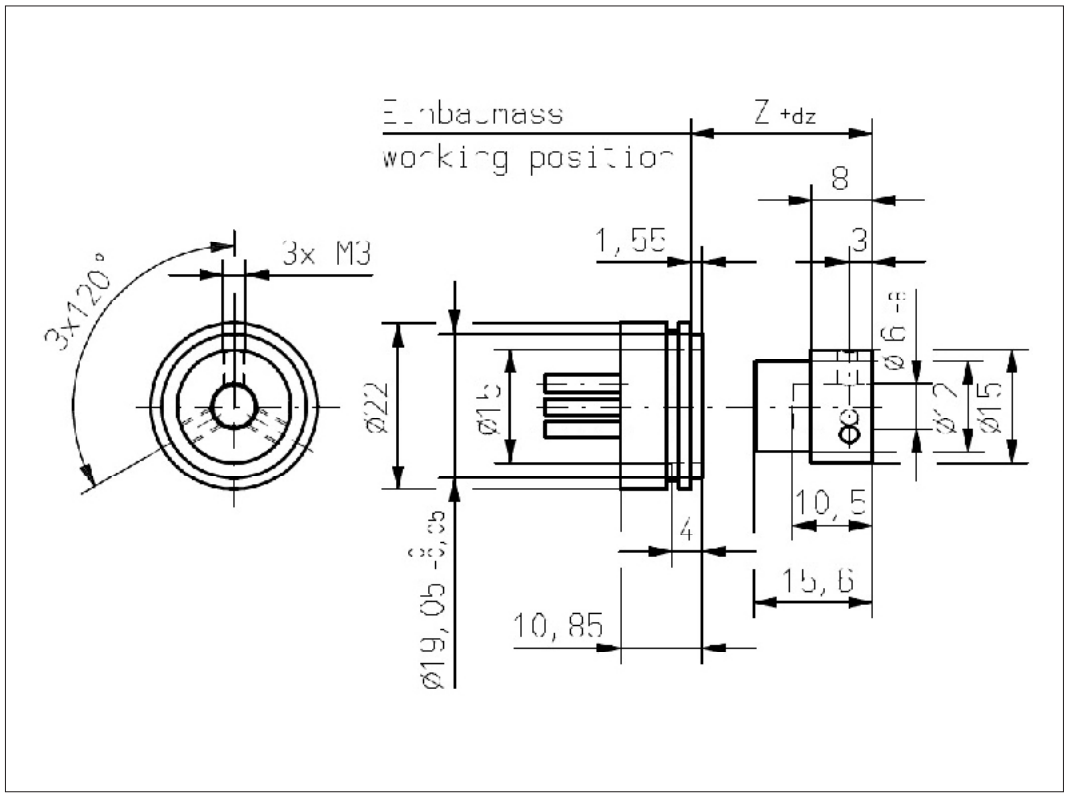
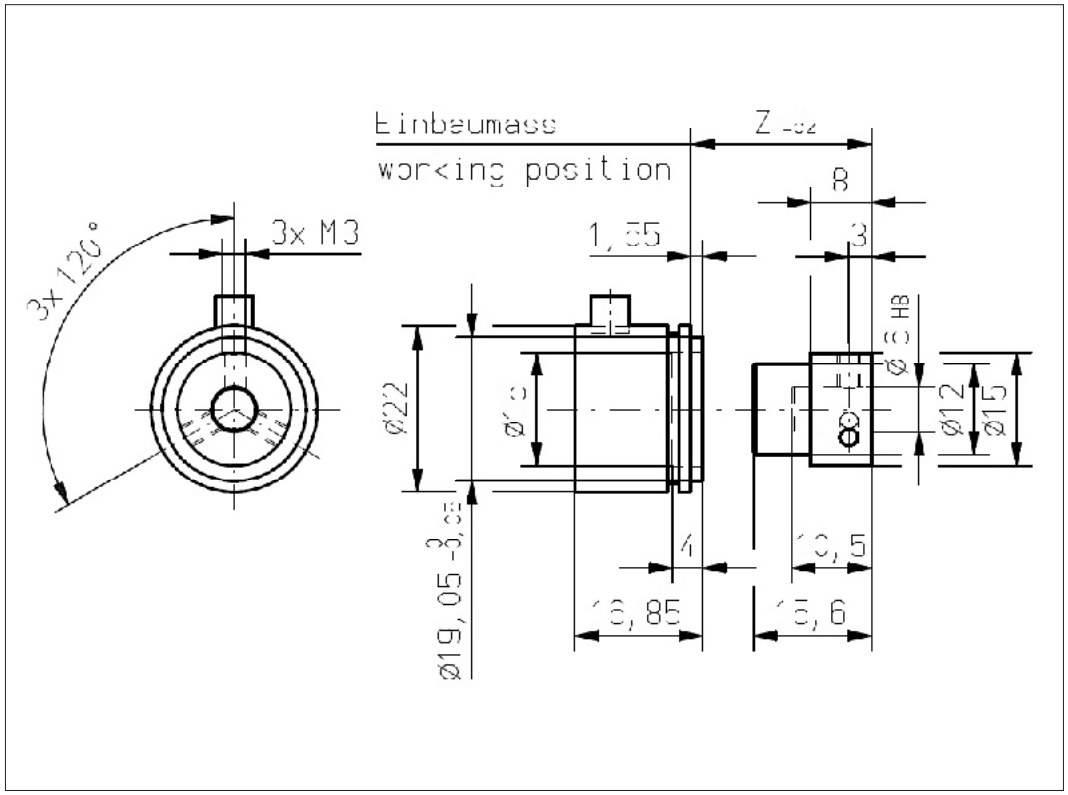


Vert-X 22E2 xxx xxx 5xx
Vert-X 22E2 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E2 xxx xxx 4xx
Vert-X 22E2 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information

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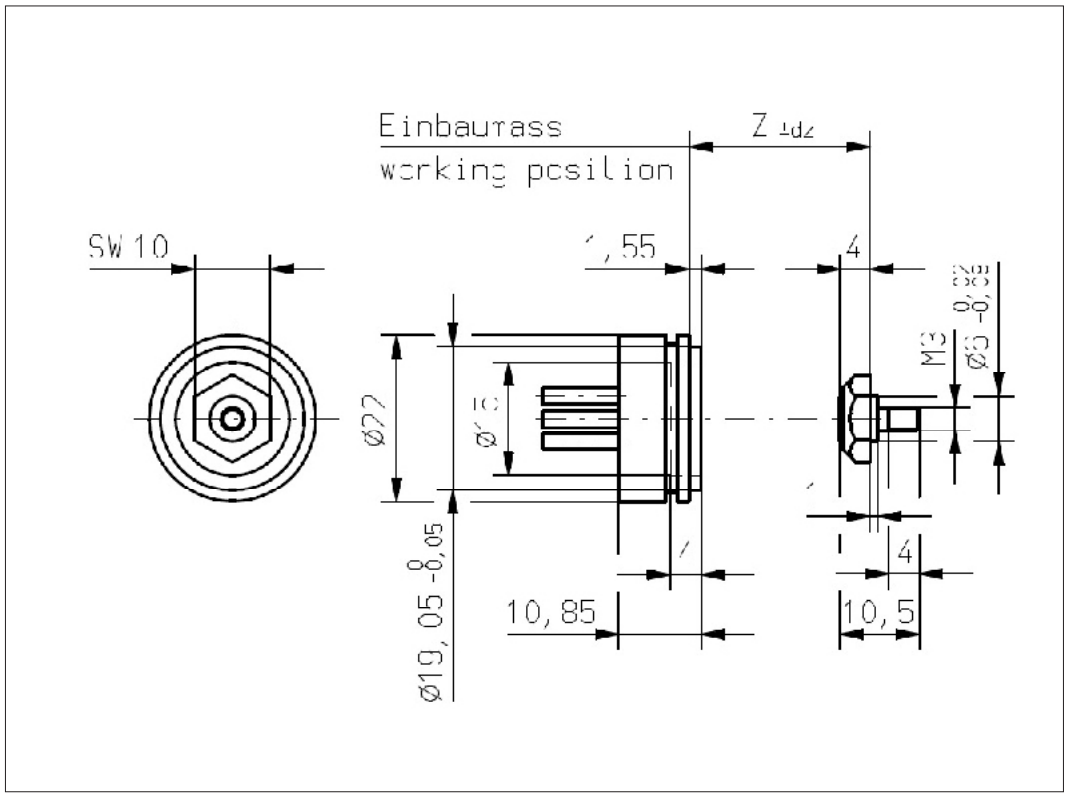
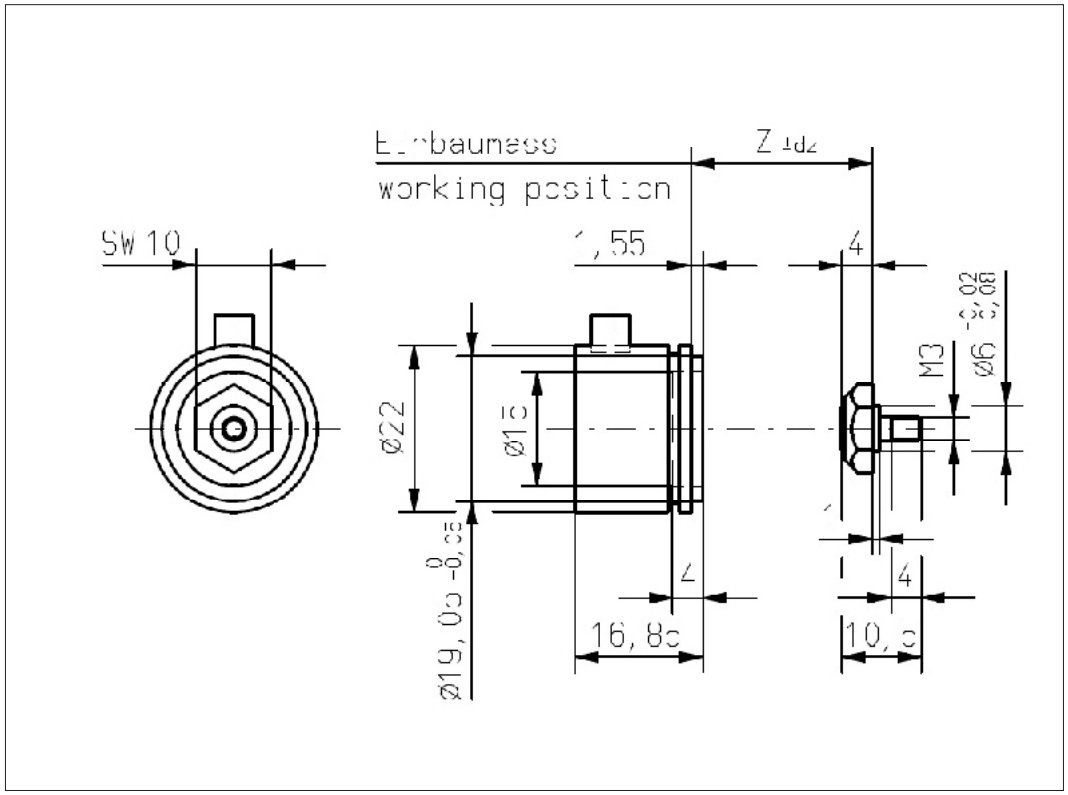


Vert-X 22E1 xxx xxx 5xx
Vert-X 22E1 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E1 xxx xxx 4xx
Vert-X 22E1 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information

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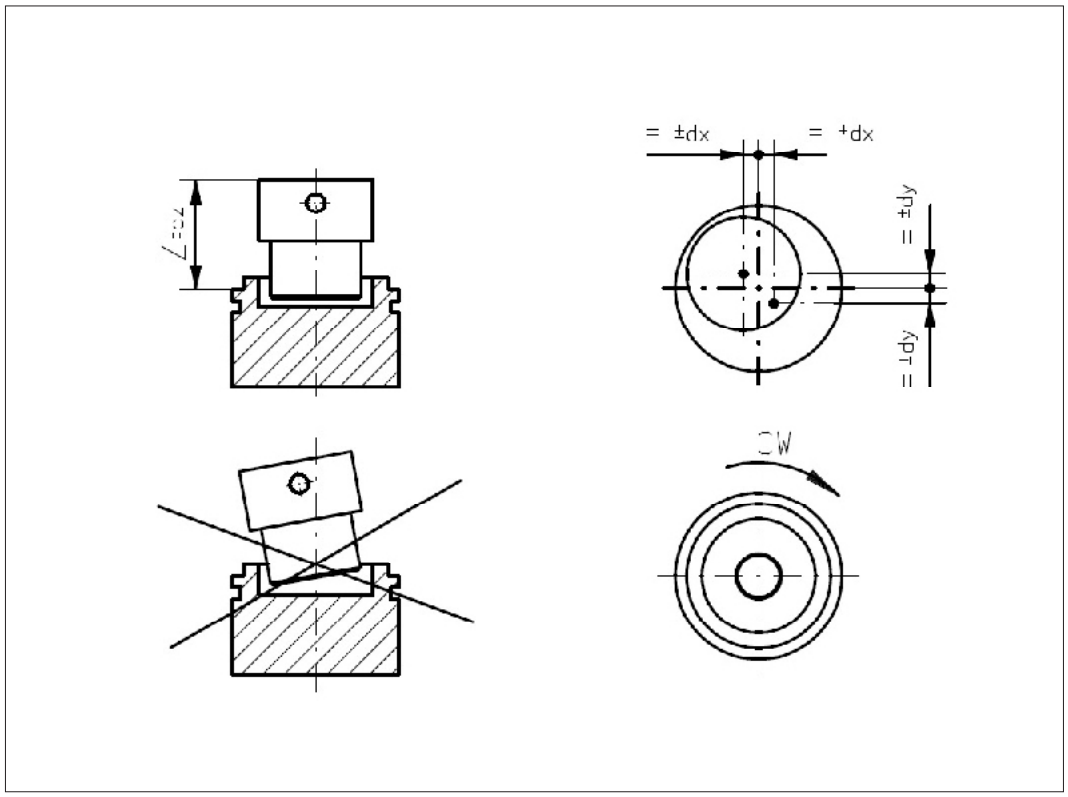


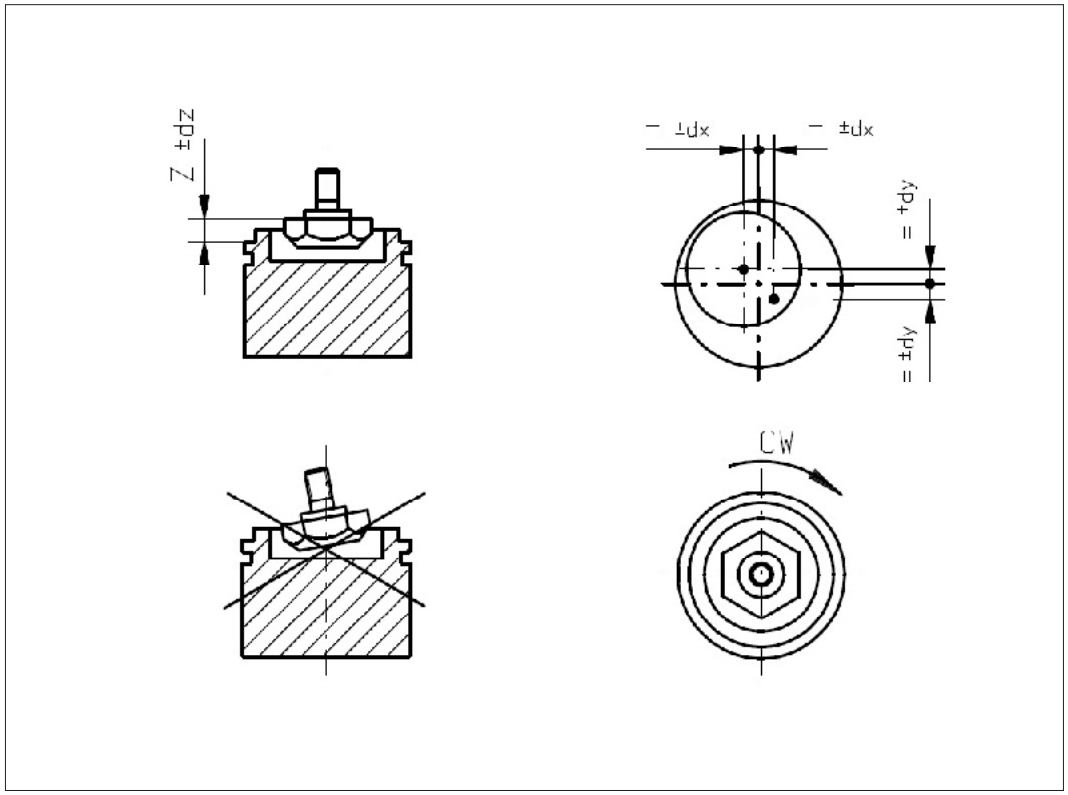
Vert-X 22E2
Mounting information

Working position (Z)

MH-C	14.40mm
MH-C redundant	13.90mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm



Vert-X 22E1
Mounting information

Working position (Z)

MH-C	3.00mm
MH-C redundant	2.50mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm

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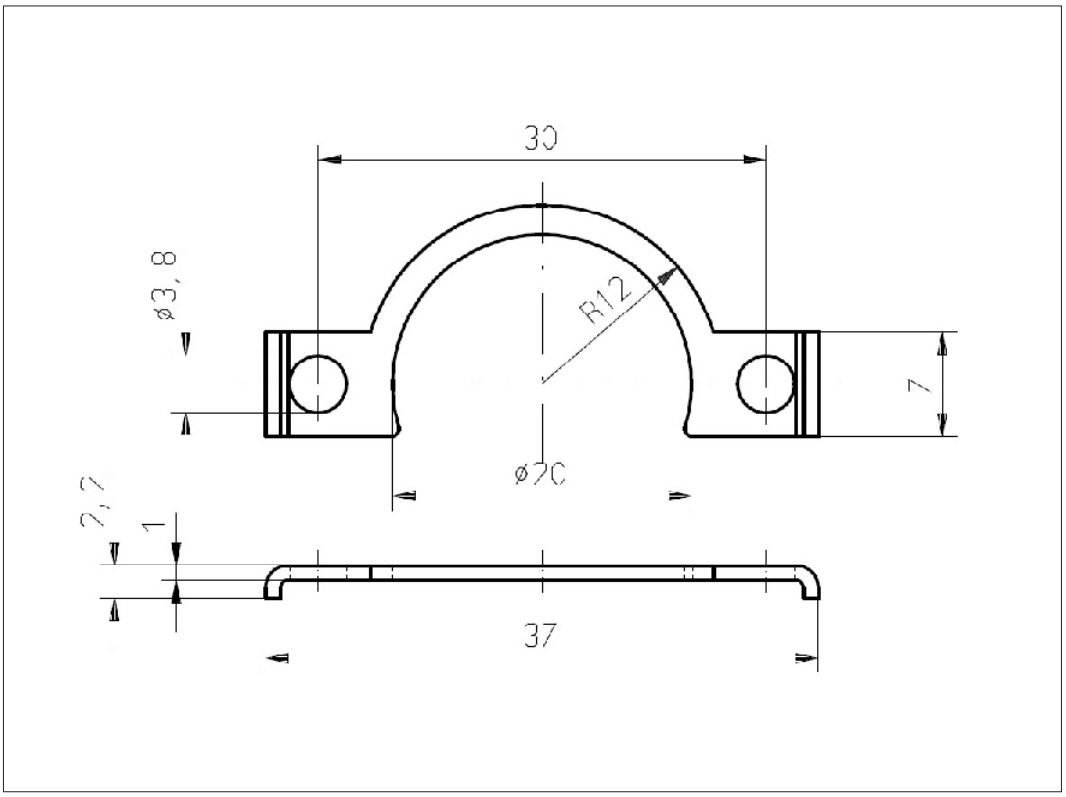

Vert-X 22E
Accessoires
Fixation clip

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Sensor principle		MH-C	MH-C2
Electrical data			
Measuring range	°	0 ... 360	-
Indep. linearitiy (without misalignment)	% of meas. range	±0.3	-
Indep. linearitiy (with allowed misalignment @ 360°)	% of meas. range	±0.5	-
Max. hysteresis	°	0.1	-
Resolution	bit	14	-
Max. repeatability	°	0.1	-
Sample rate fast mode	kHz	2.2	-
Sample rate slow mode	kHz	(0.55)	-
System propagation delay fast mode	µs	400	-
System propagation delay slow mode	µs	(600)	-
Max. temperature coefficient of the output signal	ppm/°K	25	-
MTTFd / MTBF	years	668 / 668	-
Power supply voltage	VDC	5 (±10%)	-
Current consumption without load (typ.) fast mode	mA	14	-
Current consumption without load (typ.) slow mode	mA	(9)	-
Min. ohmic load at output	kOhm	-	-
Max. capacitive load at output	nF	-	-
Reverse polarity protection of power supply		yes	-
Electrical connection axial		Ribbon cable 6pole	-
Cross section of single wires	mm²	0.09 (AWG28)	-
Electrical connection radial		Cable 6pole	-
Cross section of single wires	mm²	0.25 (AWG24)	-
Redundancy feasible		yes	-
Electrical connection redundant axial		Ribbon cable 10pole	-
Cross section of single wires redundant	mm²	0.09 (AWG28)	-
Electrical connection redundant radial		Cable 10pole	-
Cross section of single wires redundant	mm²	0.09 (AWG28)	-
Mechanical data			
Mechanical range	°	360 (continuous)	-
Protection class		IP68	-
Min. life	movements	no limitation	-
Operating & storage temperature (with wires)	°C	-40 ... +125	-
Operating & storage temperature (with ribbon cable)	°C	-40 ... +105	-
Operating & storage temperature (with round cable)	°C	-40 ... +85	-
IEC 68-2-6 Vibration (Amax = 0.75mm, f = 5 … 2000 Hz)	g	50	-
IEC 68-2-27 Shock	g	200	-
Standards			
EN 55022 class B, Emission radiated (30... 230 MHz)	dB(µV/m)	max. 30	-
EN 55022 class B, Emission radiated (230...1000MHz)	dB(µV/m)	max. 37	-
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8	-
EN 61000-4-3, Immission HF radiated (80... 1000 MHz)	V/m	30	-
EN 61000-4-4, Burst (on all lines)	kV	±1	-
EN 61000-4-5, Surge (lines to ground)	kV	±1	-
EN 61000-4-6, Immission HF conducted (0.15...80MHz)	Vemk	10	-
EN 61000-4-8, Immission magnetic field (50Hz)	A/m	30	-
IEC 60393-1 Insulation resistance (500VDC, 1bar, 2s)	GOhm	20	-
IEC 60393-1 Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1	-

Vert-X 22E - 5V / SPI

Applications

- Wind vanes
- Valve control
- Level sensor
- Special purpose vehicles

Features

- High protection class IP68
- Flat design
- Non-contacting measuring method
- Very long life
- High accuracy of measurement
- Use in cramped installation conditions
- Full resolution and accuracy at programmed electrical angle

Errors and omissions excepted. Subject to change without notice. / State: 01.10.10

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Vert-X 22E - 5V / SPI
Ordering code

Electrical connection / axial

2	Optional	Ribbon cable 10pole
7	Standard	Ribbon cable 6pole
9	Optional	Special cable ; special wires

Electrical connection / radial

1	Optional	Round cable 10pole
6	Standard	Round cable 6pole
9	Optional	Special cable ; special wires

Length of wires / ribbon cable

01	Optional	10cm
03	Optional	30cm
05	Standard	50cm
99	Optional	Special length

Length of cable

02	Standard	1.0m
06	Optional	3.0m
10	Optional	5.0m
99	Optional	Special length

Output characteristics

Positive gradient CW	Standard	1
Positive gradient CCW	Optional	2
Redundant, positive gradient CW	Optional	3
Redundant, positive gradient CCW	Optional	4
Redundant, crossed signal curves	Optional	5

Output signal

SPI	Standard	8

Power supply voltage

5VDC	Standard	2

Vert-X	2	2	E	2		7	3	6		2	8	1		7	0	5

Electrical angle

36	Standard	Electrical angle 360°
xx	Optional	03 to 35; Declaration in 10° steps
99	Optional	Special angle

Sensor principle

7	MH-C

Mechanical version

22E1	Optional	Servo mount size 9 ; magnetic actuator type 1
22E2	Standard	Servo mount size 9 ; magnetic actuator type 2
22E9	Optional	Special housing ; special magnetic actuator

	MH-C	MH-C2
Custom magnetic actuator	X	-
Custom modification of the housing	X	-
Custom cable / wires	X	-
Sample rate in slow mode	X	-
Switch functions TTL (max. 2)	X	-
Special characteristic curve	-	-
Special electrical angle within 30° to 360° (ex factory)	X	-
Electrical angle programmable (Software)	-	-
Start & end point settable (Additional wires)	-	-
Sense of rotation CW/CCW settable / programmable (Additional wires or Software)	-	-
Index point settable / programmable (Additional wires or Software)	-	-

Options (on request)

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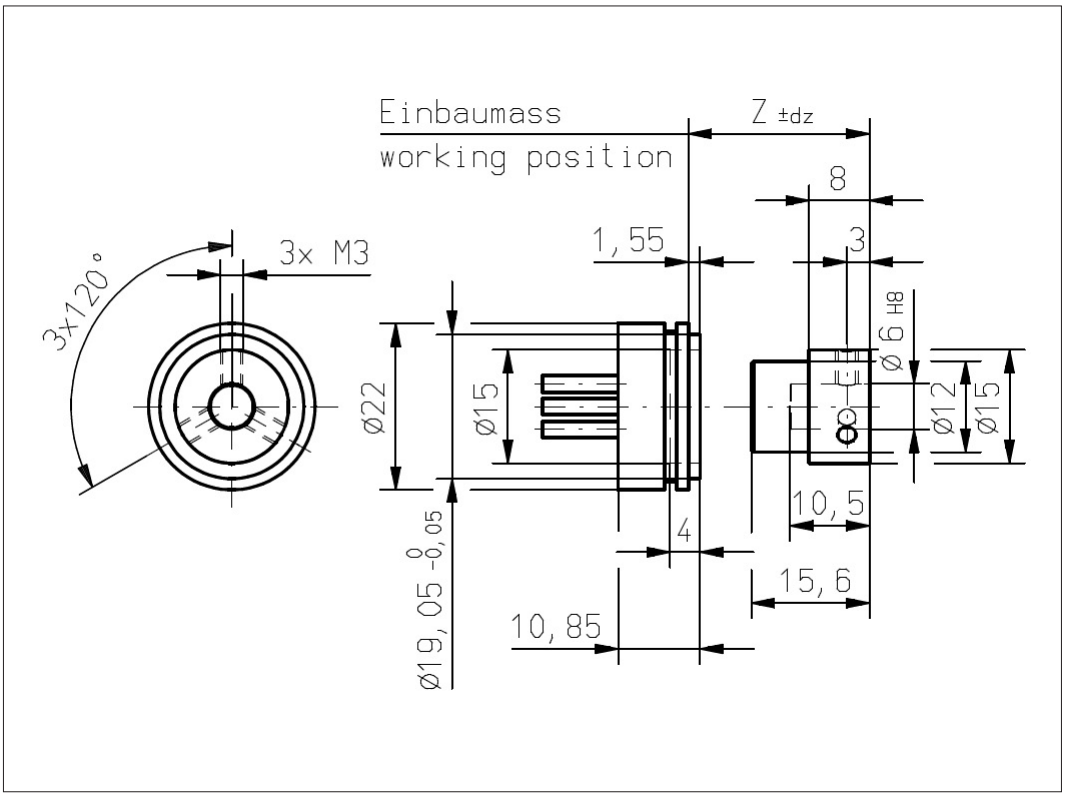
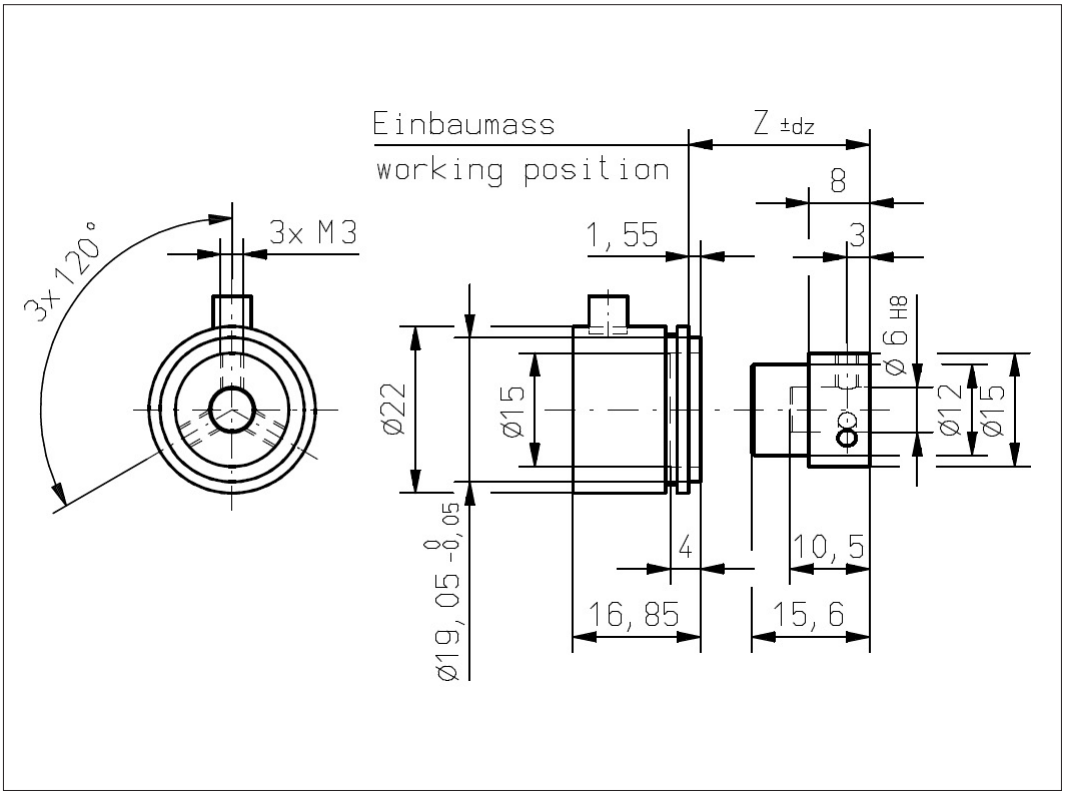


Vert-X 22E2 xxx xxx 2xx
Vert-X 22E2 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E2 xxx xxx 1xx
Vert-X 22E2 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

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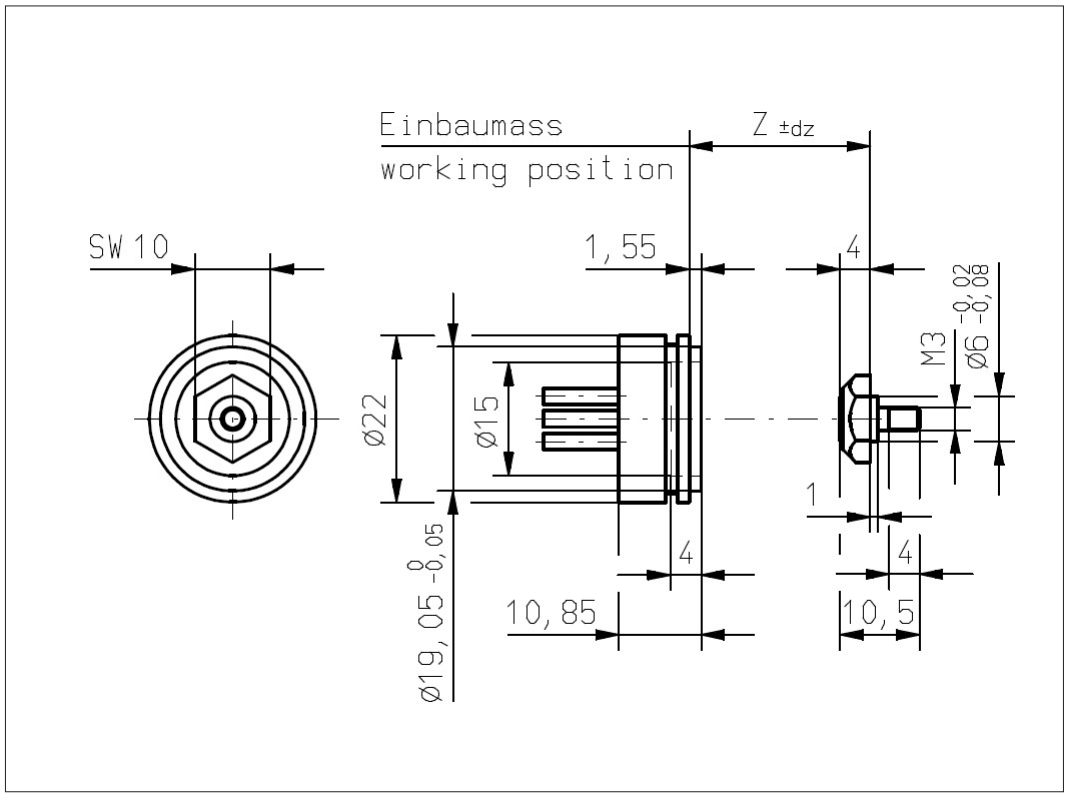
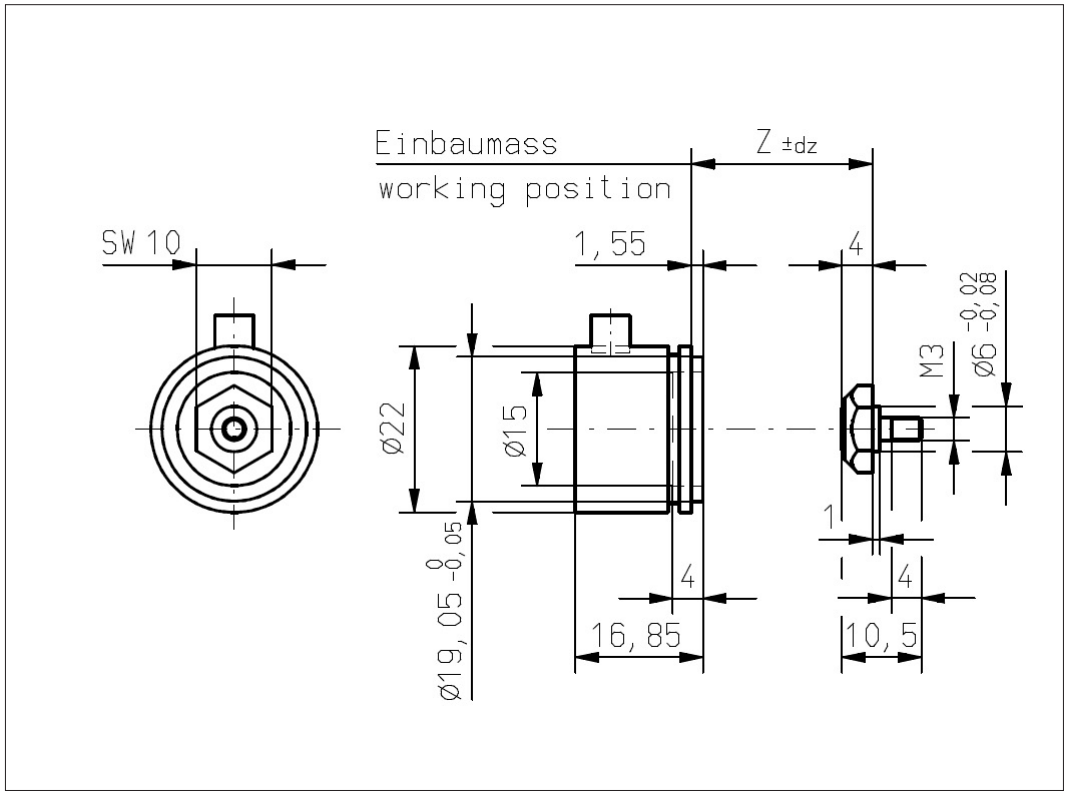


Vert-X 22E1 xxx xxx 2xx
Vert-X 22E1 xxx xxx 7xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information



Vert-X 22E1 xxx xxx 1xx
Vert-X 22E1 xxx xxx 6xx

Accessoires (incl.)
- 1x Fixation clip
- 2x Slotted cylinder head screw M3x8

Working position (Z) and max. permitted misalignment of the magnetic actuator
see mounting information

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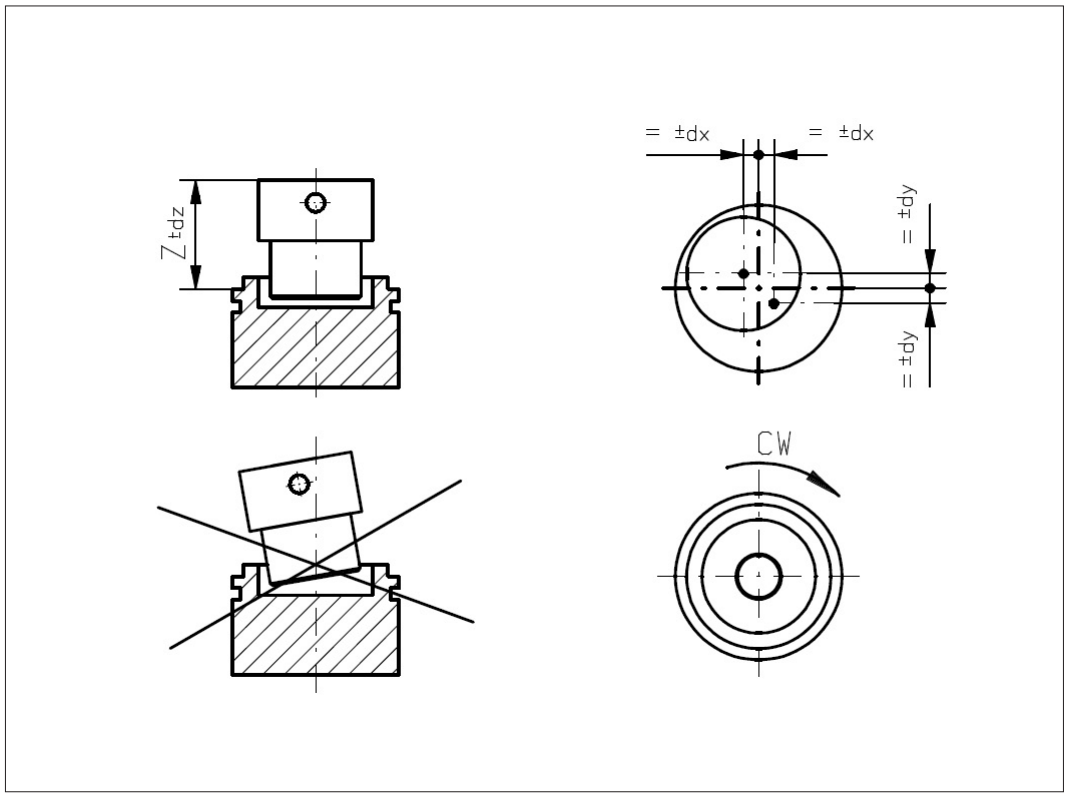


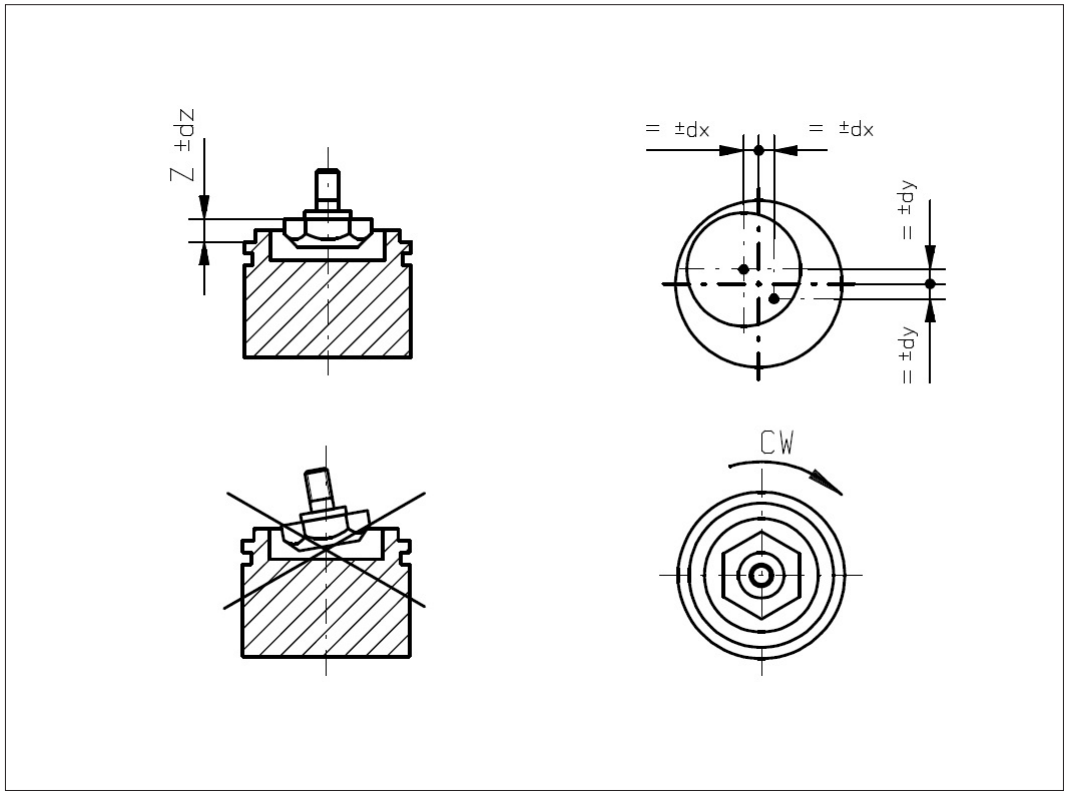
Vert-X 22E2
Mounting information

Working position (Z)

MH-C	14.40mm
MH-C redundant	13.90mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm



Vert-X 22E1
Mounting information

Working position (Z)

MH-C	3.00mm
MH-C redundant	2.50mm

Max. permitted misalignment of the magnetic actuator

dx	±0.25mm
dy	±0.25mm
dz	±0.5mm

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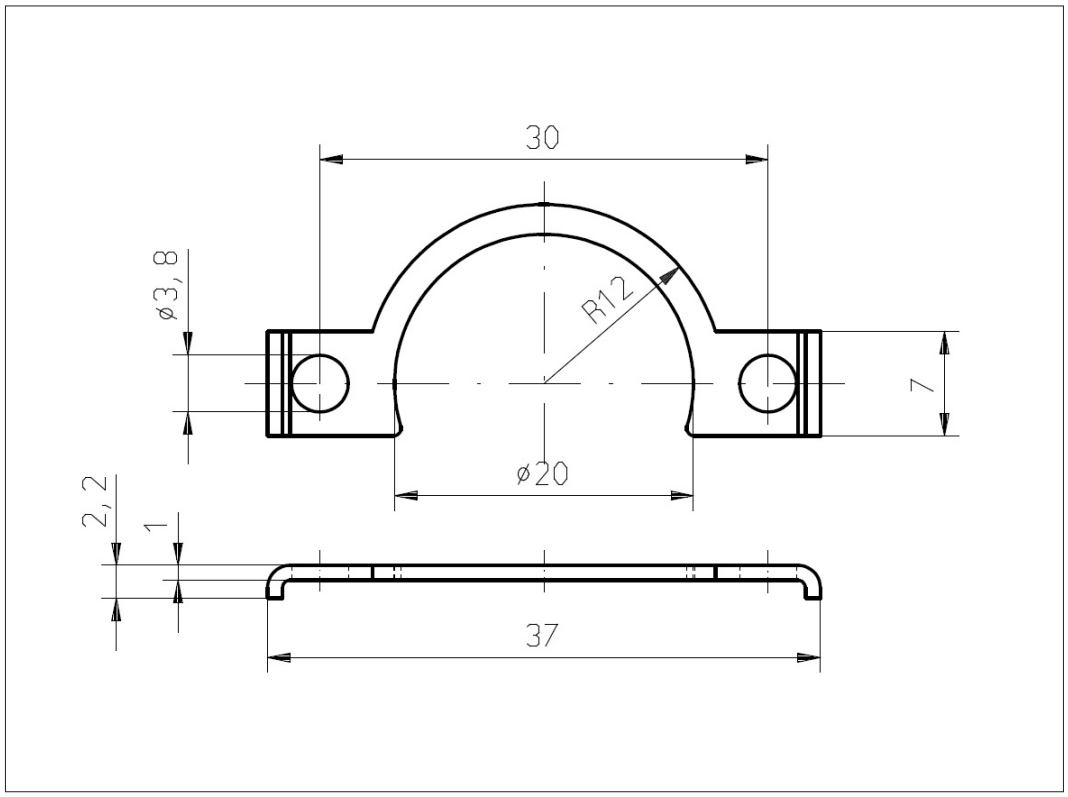

Vert-X 22E
Accessoires
Fixation clip

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