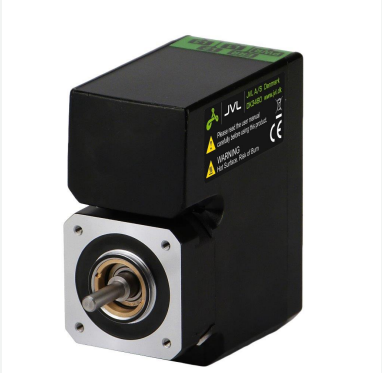
JVL A/S | Bregnerødvej 127 | DK-3460 Birkerød | Denmark | Tel.(+45) 4582 4440 | www.jvl.dk | sales@jvl.dk

MIS171Q16P6H466

Int.Step 12-72VDC, CANopen, AbsC-L

ServoStep MIS is a series of integrated stepper motors with servo control (closed-loop) and up to 3000 RPM.
It consists of NEMA 17..23..34..43 size motors with holding torques from 0.18 Nm up to 25 Nm.
All motors are programmable and have 8 I/O points (each can be DI or DO or AI).

Options include:
- incremental (semi-absolute) encoder*). absolute multiturn encoder
- brake module*)
- radial or axial*) connectors
- CANopen
- Ethernet interface w/built-in switch for easy daisy-chaining and all protocols (Profinet. EtherNet/IP. EtherCAT. Sercos. ModbusTCP/UDP. Powerlink).
- Wireless versions are also possible: WLAN or BlueTooth.
- Special shaft versions include double shaft and hollow shaft. contact JVL to learn which combinations are possible.
- Higher IP versions are also available. *) Depending of other options



General information

Description	Int.Step 12-72VDC, CANopen, AbsC-L, 4xM12. 2x5pF:CANopen 17pF:8xDIO/AI +RS422+RS485, High Resolution: 409.600 step/rev. ±0.01 RPM, Programmable (incl. current, position & velocity), C-L + Absolute multi-turn encoder. 4096 CPR ± 5242 Revs, Ø5x20 mm Round Shaft: IP42Motor: IP42, 43.1x73.5 mm Holding Torque: 0.18 NmMax. 50.24 WAxial Connector12-72 VDC		
Manufacture	JVL	**Motor type**	Integrated Stepper - Rotating
Motor resolution	409600	**Encoder type**	H4: H2 incr+absSingleturn and H3 serial/absMultiturn
Speed [Rpm]	3000.00	**Power Peak [W]**	50.24
Flange size	NEMA 17 - 42x42mm	**Shaft size - Front [mm]**	5.00 mm
Running torque [Nm]	0.18	**Rated Winding current [A]**	4.0
Holding torque [Nm]	0.18	**Connectivity: Without module**	CANopen
Integrated PLC	Yes	**PLC no. of DI/DO/AI**	8
Closed loop	Yes	**STO connector**	No
Integrated gear	No	**Gear ratio**	
Brake	External brake option	**Protection House/Shaft**	
Shaft Double	No	**Main supply [V]**	12-72

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General information

Main supply UL [V]	12-60	**Voltage type - Main**	DC
Control voltage (CVI/O+) [VDC]	7-28	**Control Voltage for UL recognized**	
Weight net [kg]	0.48	**MTBF 100% [Year]**	13
Weight gross [kg]	0.61	**MTBF 30% [Year]**	15
Software	MacTalk		
CE Marked	Yes		
CE			
Approval - ROHS-3	Yes		
RoHS 3			
Approval UL	Pending. Ask JVL for lead time	**UL Installation**	

Ambient Temperature range [°C]:		**Max. Amb. Temperature range - Torque derating:**	
Maximum Installation Altitude [m]:		**- Power Derating every 1000m over 1000m [%]:**	

Motion Information:			
Velocity Precision [+/-ppm]		**Velocity Resolution [Rpm]**	
Acceleration / Deceleration Range [Rpm/s]		**Acceleration / Deceleration Range [Rpm/s]**	
Electronic Gearing Ratio [Range / Resolution]		**Country Of Origin**	DK
Tariff no	85015100	**Tariff no US**	

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

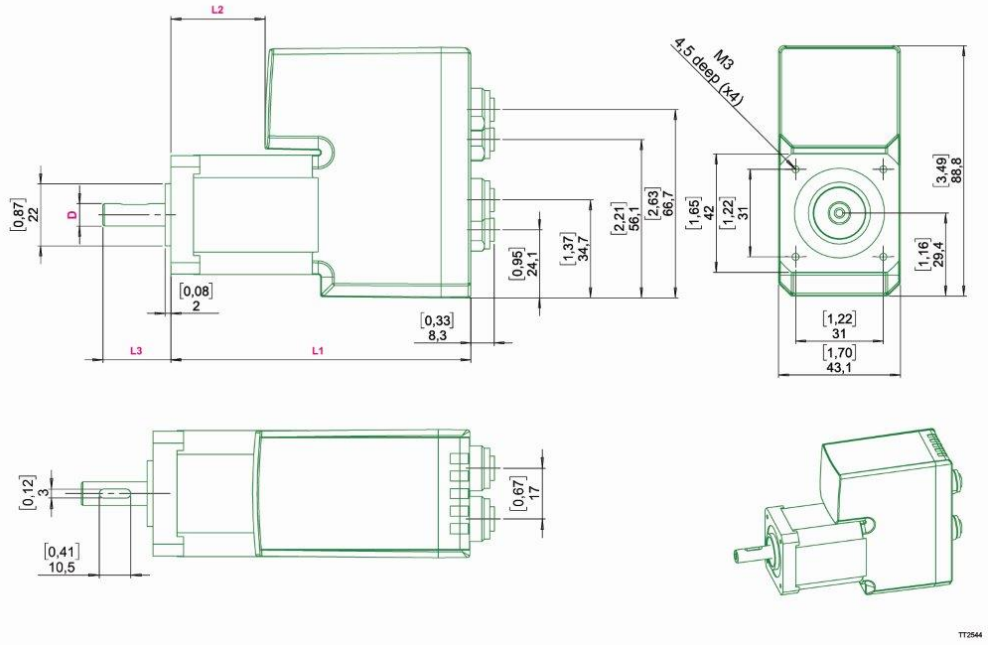
Mechanical information

Paint type

Motor Type	Length (L1) ±2.0 [0.0787]	Length (L2) ±2.0 [0.0787]	Shaft length and form (L3) +0 / -0.013mm[0.000512]	Shaft dia. (D) +0 / -0.013mm[0.000512]
MIS171Q16..	73.5 [2.89]	0.8 [0.03]	20.0 [0.79] Round	5.0 [0.19]
MIS173Q8..	85.2 [3.35]	12.5 [0.49]	20.0 [0.79] D-cut	6.35 [0.25]
MIS173Q16..	85.2 [3.35]	12.5 [0.49]	20.0 [0.79] Round	5.0 [0.19]
MIS176Q8..	106 [4.17]	33.3 [1.31]	20.0 [0.79] D-cut	6.35 [0.25]
MIS176Q35..	106 [4.17]	33.3 [1.31]	24.0 [0.94] Keyway	8.0 [0.31]
MIS176Q75..	106 [4.17]	33.3 [1.31]	24.0 [0.94] D-cut	6.35 [0.25]

[ ] = Inches

This drawing covers only motor type MIS17xQ with axial connectors



Motor length [mm]	73.5	**Motor width [mm]**	43.1
Motor height [mm]	88.8		
Protection house	IP42	**Protection shaft**	IP42
		Flange Rear	No
Flange Type Front		**Flange Type Rear**	
Motor diameter center front [mm]	22.0	**Motor diameter center rear [mm]**	
Bolt circle diameter front [mm]	43.8	**Bolt circle diameter front [mm]**	
Mounting holes front [mm]	M3	**Mounting holes rear [mm]**	
Flange Thickness [mm]		**Flange material**	Aluminium
		Shaft Double	No
Shaft Type Output	Round	**Shaft Type Rear**	
Shaft size - Front [mm]	5.00 mm	**Shaft size - Rear**	-
Shaft length Front [mm]	20.0	**Shaft length Rear [mm]**	
Shaft material	Stainless steel AISI303	**Shaft Key included**	Key NOT included
Shaft Key Dimension	-		
Integrated gear	No	**Gear ratio**	

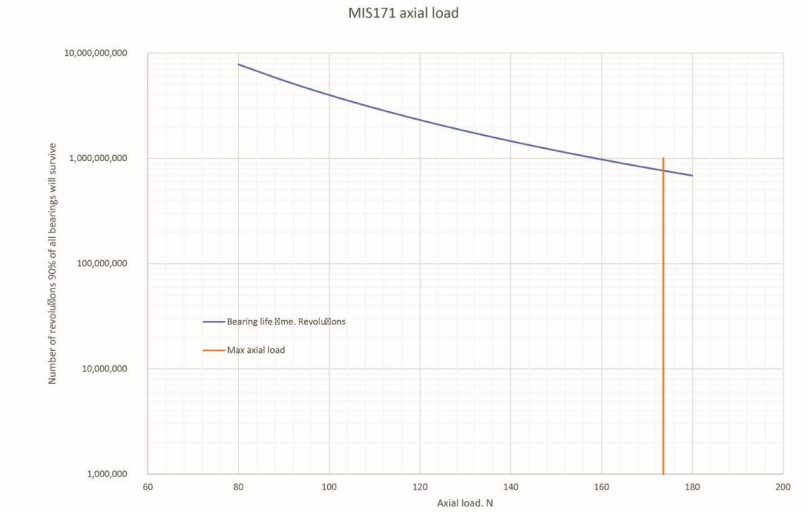
MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Mechanical information

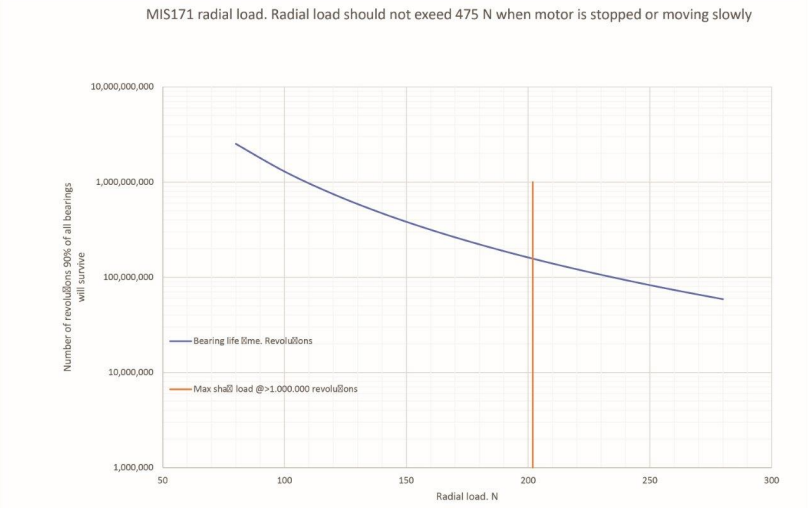
Gear efficiency [%]	< -	**Gear backlash [ArcMin]**	-
Brake	External brake option	**Brake - Go ON time [ms]**	-
Brake Holding torque [Nm]	-	**Brake - Go OFF time [ms]**	-
Rotor inertia [kgcm^2]	0.020	**Max inertia factor**	40
Precision Motor - Absolute [Deg -/+]	0.35	**Precision Motor - Max Load [Deg -/+]**	
Precision Motor - Repeatabillity [Deg -/+]	0.15	**Step angle [°/full step]**	1.8°
CAD 2D [PDF]	Download	**CAD 3D [STEP]**	Download
CAD 2D [DWG]	No	**CAD 3D [DWG]**	No
CAD 3D [EASM]	No	**CAD 3D [IGES]**	No
Datasheet - pdf		**CAD file page**	Link
User Manual	Download	**WEB page**	Link
Approval UL	Pending. Ask JVL for lead time	**UL Installation**	
STO connector	No	**Approval - ATEX**	No
Approval TÜV - STO	No	**Oil resistant**	
Temperature ambient [°C]	0...40 °C and 0...70 °C with derating of performance	**Temperature storage**	-40...70 °C
Humidity working	5...93% non-condensing	**Vibration**	5-25 Hz: +/-1.6mm, 25-500Hz: 4G, 1.0 oct./min
Shock	15G, 30ms. 6 x 1000 cycles in +/-X, +/-Y, +/-Z	**Withstand Voltage**	500 VDC between earth and supply ground
EMC in general	EMC Directive DIR2014/30/EU	**EMC Emission**	EN61800-3 / EN61000-6-3 / EN61000-6-4 all 2. enviroment
EMC Immunity	En IEC 61800-3 / EN61000-6-1 all 2. enviroment	**Safety in general**	LVD DIR2014/35/EU / EL61800 - USA and Canada only MIS34x products are pending
Safety wo STO	EN60950-1	**Safety w STO**	EN60950-1 / EN61508-1/-2 SIL3 / ISO13849-1/-2 / ISO62061 / EN61800-5-1/-2
Inviromental	IEC 60068-2-27, Test Ea. Shock test	**Inviromental 2**	IEC 60068-2-6, Test Fc. Vibration test
Inviromental 3	IEC 60068-2-2, Test Bd. covers temperaturerise/dry heat	**Inviromental 4**	IEC 60068-2-78, Perm. moisture/Damp heat, steady state
REACH SVHC document	REACH-SVHC Statement	**Low voltage Directive**	LVD conformity with EU standard: EN IEC 62368-1:2020/A11:2020
No Dual Use	Read more here		
Duty Cycle		**Max Duty Cycle [%]**	
Dutycycle UL			
Front bearing type	698ZZ	**Rear bearing type**	698ZZ
Axial Load Max: Typical Term	Axial load Max Typical is a run of 14.400.000 revolutions at indicated load	**Axial Load Max: Long Term**	Axial load Max Long is a run of 1.440.000.000 revolutions at indicated load
Axial Load Max: Typical [N] (Bearing)	174	**Axial Load Max: Long [N] (Bearing)**	96

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Mechanical information



Radial Load Max Typical Term:	Radial load Max Typical is a run of 14.400.000 revolutions at indicated load	**Radial Load Max Long Term:**	Radial load Max Long is a run of 1.440.000.000 revolutions at indicated load
Radial Load Max: Typical [N] (Bearing)	202	**Radial Load Max: Long [N] (Bearing)**	140



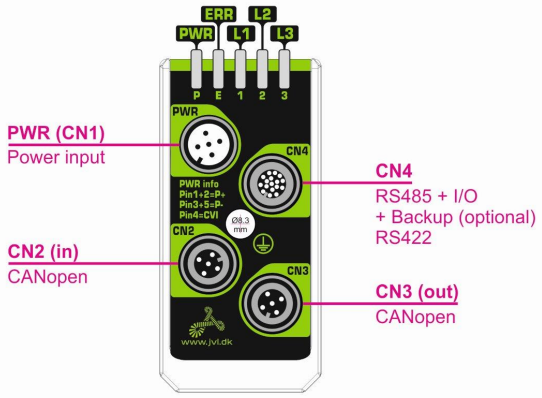
Radial load distance [mm]	10	**Axial play [mm]**	0.08
Axial play force [N]	4	**Shaft Seal**	

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Connector information

Connector 1 label	PWR	**Connector 1**	M12 5-pin male A-coded
Connector 2 label	CN2	**Connector 2**	M12 5-pin female A-coded CAN
Connector 3 label	CN3	**Connector 3**	M12 5-pin female A-coded CAN
Connector 4 label	CN4	**Connector 4**	M12 17-pin female A-coded
Connector 1 RS485	No	**Connector 2 RS485**	No
Connector 3 RS485	No	**Connector 4 RS485**	Yes

Motor connectors



MIS17xQ/R - P6

RS485 serial communication
in network and CANopen

Picture CN1

"PWR" (CN1) - Power input. M12 - 5pin male connector

Signal name	Description	Pin no.	JVL Cable WI1000-M12F5TxxN	Isolation group
P+	Main supply +7-72VDC. Connect with pin 2 *	1	Brown	1
P+	Main supply +7-72VDC. Connect with pin 1 *	2	White	1
P-	Main supply ground. Connect with pin 5 *	3	Blue	1
CVI	Control and user output supply +7-30VDC. **DO NOT connect >30V to this terminal!**	4	Black	1
P-	Main supply ground. Connect with pin 3 *	5	Grey	1

* Note: P+ and P- are each available at 2 terminals. Make sure that both terminals are connected in order to split the supply current in 2 terminals and thereby avoid an overload of the connector.

Picture CN2

CN2 - CANopen® interface. M12 - 5-pin female connector

Signal name	Description	Pin no.	Cable: WI1006-M12F5SxxR
CAN_SHLD	Shield for the CAN interface - internally connected to the motor housing	1	Bare
CAN_V+	Reserved for future purpose - do not connect	2	Red
CAN_GND	CAN interface ground	3	Black
CAN_H	CAN interface. Positive signal line	4	White
CAN_L	CAN interface. Negative signal line	5	Blue

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Connector information

Picture CN3

CN3 - CANopen® interface. M12 - 5-pin female connector			
Signal name	**Description**	**Pin no.**	**Cable: WI1006-M12M5SxxR**
CAN_SHLD	Shield for the CAN interface - internally connected to the motor housing	1	Bare
CAN_V+	Reserved for future purpose - do not connect	2	Red
CAN_GND	CAN interface ground	3	Black
CAN_H	CAN interface. Positive signal line	4	White
CAN_L	CAN interface. Negative signal line	5	Blue

Picture CN4

"CN4" - RS485 + I/O + Backup (option) connector - M12 - 17pin female connector				
Signal name	**Description**	**Pin no.**	**JVL Cable WI1009M12 M17TxxN**	**Isolation group (see note)**
IO1	I/O channel 1. Can be used as input or output	1	Brown	1
GND	Ground intended to be used together with the other signals in this connector	2	Blue	1
IO2	I/O channel 2. Can be used as input or output	3	White	1
IO3	I/O channel 3. Can be used as input or output	4	Green	1
RS422: B1-	RS422 I/O terminal B-	5	Pink	1
IO4	I/O channel 4. Can be used as input or output	6	Yellow	1
RS422: A1-	RS422 I/O terminal A-	7	Black	1
RS422: B1+	RS422 I/O terminal B+	8	Grey	1
CVO	Supply output. Connected internally to the **CVI** terminal in the PWR connector. **DO NOT connect >30V to this terminal!**	9	Red	1
RS422: A1+	RS422 I/O terminal A+	10	Violet	1
IO5	I/O channel 5. Can be used as input or output	11	Grey/pink	1
IO6	I/O channel 6. Can be used as input or output	12	Red/blue	1
IO7	I/O channel 7. Can be used as input or output	13	White/Green	1
IO8	I/O channel 8. Can be used as input or output	14	Brown/Green	1
RS485: B0-	RS485 interface. Leave open if unused	15	White/Yellow	1
EXTBACKUP	Only for motors with the -H3 or -H4 option (abs. multiturn encoder). This terminal can be connected to an external supply. **Connect to ground (GND) if not used.**	16	Yellow/brown	1
RS485: A0+	RS485 interface. Leave open if unused	17	White/grey	1

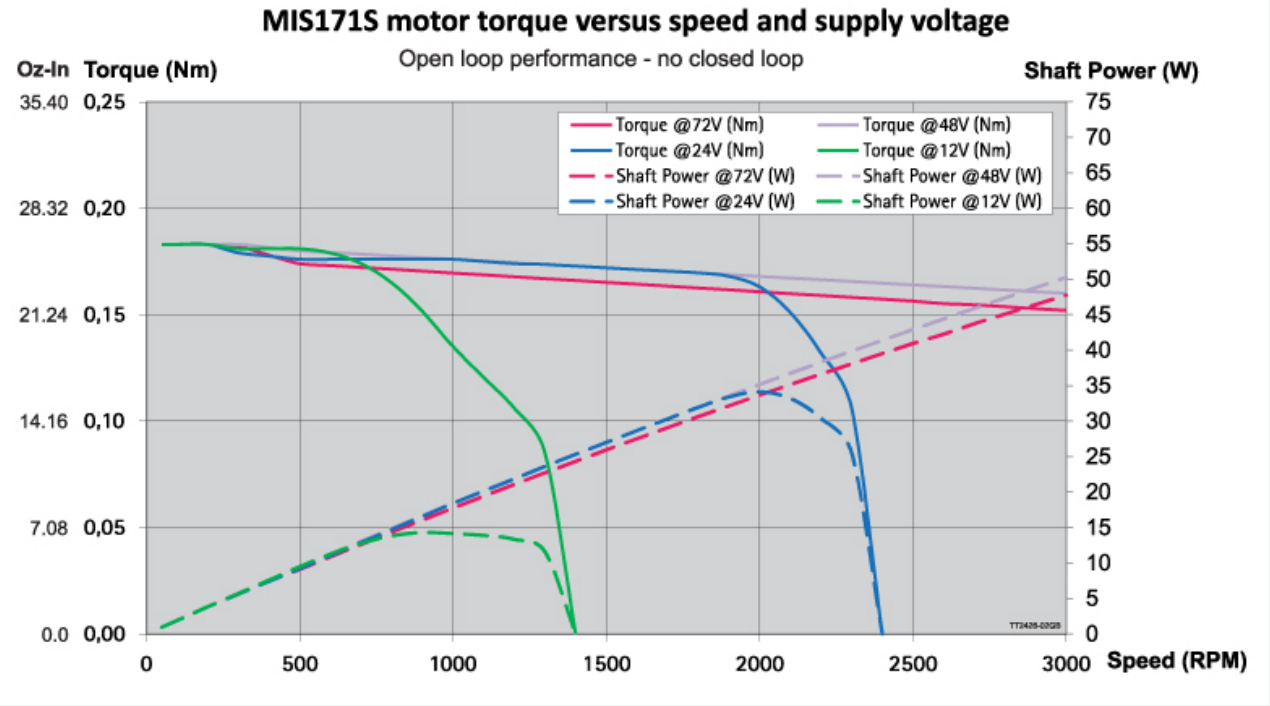
* Note: Isolation group indicate which terminals/circuits that a galvanic connected to each other. In other words group 1, 2, 3 and 4 are all fully independently isolated from each other. Group 1 correspond to the housing of the motor which may also be connected to earth via the DC or AC input supply.

Connector STO	No
Picture STO Con	-

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Torque, force and Power information

Supply Volt 1 [V]	12	**Power Peak 1 [W]**	14.27
Supply Volt 2 [V]	24	**Power Peak 2 [W]**	34.12
Supply Volt 3 [V]	48	**Power Peak 3 [W]**	50.24
Supply Volt 4 [V]	72	**Power Peak 4 [W]**	47.73
Holding torque [Nm]	0.18	**Running torque [Nm]**	0.18
Detent torque [Nm]			



MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Electrical information

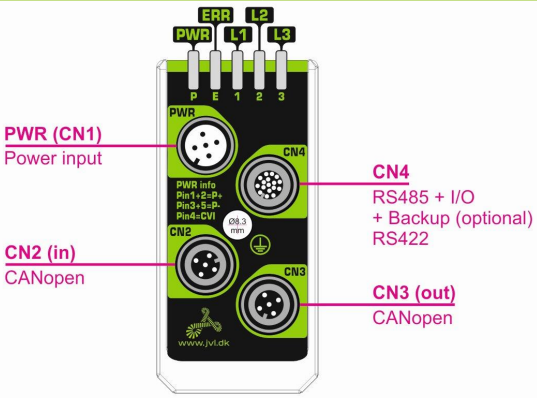
Main supply [V]	12-72	**Main supply Min-Max [V]**	7-90
Main supply UL [V]	12-60	**Main supply Max UL [V]**	7-60
Rated motor current [A]	2.7	**Control voltage (CVI/O+) [VDC]**	7-28
Control Voltage (CVI) Min-Max [VDC]	7-30	**Control Voltage for UL recognized**	
CVI current wo Ethernet and output (12/24VDC) [mA]		**Current Ethernet option (12/24VDC) [mA]**	
Current brake option [mA]	-	**Current for 1 Dig. output - max [mA]**	350
Max current CVI [A]			
Encoder type	H4: H2 incr+absSingleturn and H3 serial/absMultiturn	**Encoder Resolution (H2)**	H2 - 4096 Singleturn AbsEnc - Semi multiturn
Encoder Resolution (H3)	H3 - 1024 Multiturn AbsEnc	**Encoder revolutions**	+/-5242
PLC no. of DI/DO/AI	8	**Analogue voltage**	0-5VDC 12bit
Dig. Input impedans	30 Kohm	**Counter frequency max**	12MHz
Standard used		**Standard used 2**	
Resistance [Ohm]		**Induction [mH]**	

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Communication information

Software	MacTalk	**Connector 2 RS485**	No
Connectivity: Without module	CANopen	**Connector 3 RS485**	No
		Connector 4 RS485	Yes

Motor connectors



MIS17xQ/R - P6

RS485 serial communication
in network and CANopen

e-PLC Files	**Ethernet, PLC demo files**

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
WI1000-M12F5T02N M12 Shl Cable 2m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	2 No
WI1000-M12F5T05N M12 Shl Cable 5m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 No
WI1000-M12F5T1.2N M12 Shl Cable 1.2m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	1.2 No
WI1000-M12F5T10N M12 Shl Cable 10m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 No
WI1000-M12F5T10R M12 Shl Cable 10m 5 pin Fem 0°, Power, High-flex	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Cable Chains - 2D	5 0.34	10 No
WI1000-M12F5T20N M12 Shl Cable 20m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 No
WI1000-M12F5TLT0185 M12 shl Cable 3m 5 pin female 0°,PW SPEC	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	Power/Motor/com Standard	5 0.32	3 No
WI1000-M12F5TM5T1.5N M12 A Code Shl Cable 1.5m 5 pin Female/Male 0° Pow	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	Power/Motor/com		1.5 No
WI1000-M12F5V05N M12 Shl Cable 5m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 No
WI1000-M12F5V05R M12 Shl Cable 5m 5 pin Fem 90°, Power, 3D	Connector 1	M12 5-pin female A-coded - 90° Angled - n/a	Power/Motor/com		5 No
WI1000-M12F5V10N M12 Shl Cable 10 m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 No
WI1000-M12F5V20N M12 Shl Cable 20m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 No
WI1000-M12F5W05N M12 Shl Cable 5m LED 5p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 LED
WI1000-M12F5W10N M12 Shl Cable 10m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 LED
WI1000-M12F5W15N M12 Shl Cable 15m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	15 LED
WI1000-M12F5W20N M12 Shl Cable 20m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 LED
WI1000-M12F5WF5W20N M12 shl cab 20m LED 5 pin female 90',Pow <50V	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin female A-coded - n/a	Power/Motor/com Standard	5 0.32	20 LED
WI1005-M12F5TF5T03P M12 Cab 3m, 5p Fem - 5p Fem twistedPair	Connector 1	M12 5-pin female A-coded - 180° Straight M12 5-pin female A-coded - n/a	Communication	0.32	3 No
WI1005-M12F5TM5T2.0N M12 cable 2m, 5 pin female - 5pin male	Connector 1	M12 5-pin female A-coded - 180° Straight M12 5-pin male A-coded - n/a	Communication Standard	0.32	2 No
WI1008-M12F5AG1 M12 Con 5p Fem 90° Spring Ø4-8mm cable	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	CANopen/DeviceNet		20 No
WI1008-M12F5SS1 M12 Con 5p Fem 0° Solder assembly	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12F5TG1 M12 Con 5p Fem 0° Spring Shield+B222	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12F5VG1 M12 Con 5p Fem 90° Spring Shield	Connector 1	M12 5-pin female A-coded - 90° Angled - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1025-M12F5AF5AM5A M12 T-Con 2x Fem 5 p + 1x Male 5 p	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin female A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5AM5A M12 Cabinet Feed-through F5p-M5p	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5AM5AF5A M12 T-Con Fem 5p+ Male 5p + Fem 5p NoSh	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5VM5VF5V M12 Shl Y-Con 1xMale 5p + 2x Fem 5p CAN	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded CAN - n/a	Standard	5 0.32	No
WI1006-M12M5S05R	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5

MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

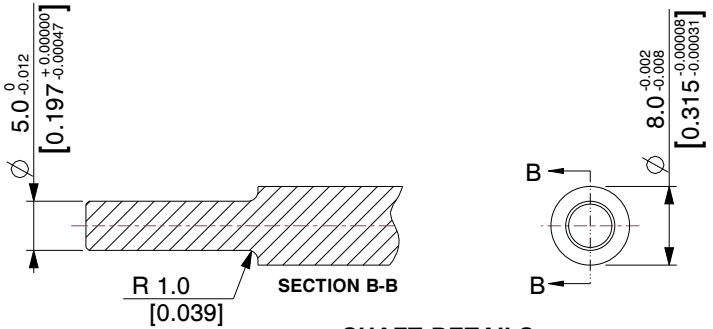
Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
M12 5m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Robotic - 3D	0.32 + 0.2	No
WI1006-M12M5S05T	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5
M12 5m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5S15R	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	15
M12 15m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Robotic - 3D	0.32 + 0.2	No
WI1006-M12M5T05N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet		
M12 5m 5p Male 0° CAN/DeviceNet		- n/a			No
WI1006-M12M5TM5T.3N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	0.3
M12 0.3m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T01N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	1
M12 1m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T02N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	2
M12 2m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T03N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	3
M12 3m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T05N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5
M12 5m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T1.7N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	1.7
M12 1.7m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T20N	Connector 2	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	20
M12 20m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5S05R	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5
M12 5m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Robotic - 3D	0.32 + 0.2	No
WI1006-M12M5S05T	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5
M12 5m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5S15R	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	15
M12 15m 5p Male 0° CAN Twisted pair		Open Ended - n/a	Robotic - 3D	0.32 + 0.2	No
WI1006-M12M5T05N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet		
M12 5m 5p Male 0° CAN/DeviceNet		- n/a			No
WI1006-M12M5TM5T.3N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	0.3
M12 0.3m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T01N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	1
M12 1m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T02N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	2
M12 2m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T03N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	3
M12 3m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T05N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	5
M12 5m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T1.7N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	1.7
M12 1.7m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1006-M12M5TM5T20N	Connector 3	M12 5-pin male A-coded CAN - 180° Straight	CANopen/DeviceNet	4	20
M12 20m 5p Male/Male 0° CAN Twisted pair		M12 5-pin male A-coded CAN - n/a	Standard	0.32 + 0.2	No
WI1005-M12M17SAA01	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 1 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA01W	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 1, with wire 1,2m		n/a - n/a		n/a	No
WI1005-M12M17SAA02	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 2 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA03	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 3 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA04	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 4 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA05	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 5 Without wire		n/a - n/a	n/a	n/a	No

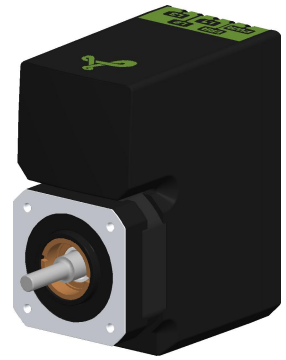
MIS171Q16P6H466 Int.Step 12-72VDC, CANopen, AbsC-L

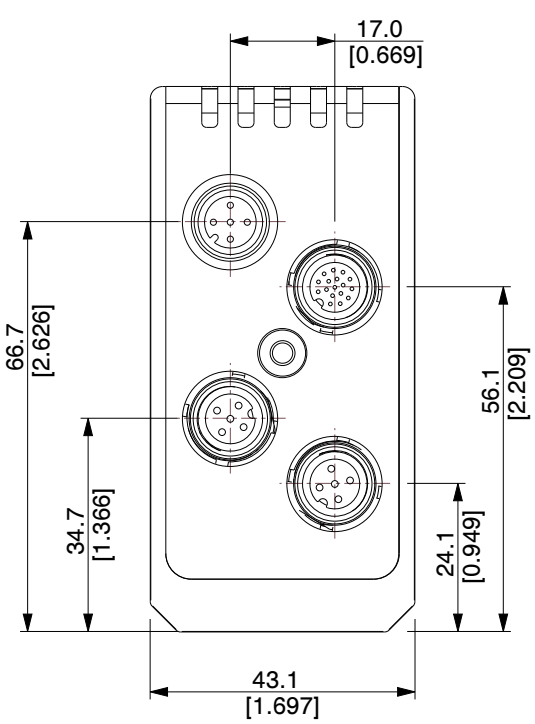
Cable information

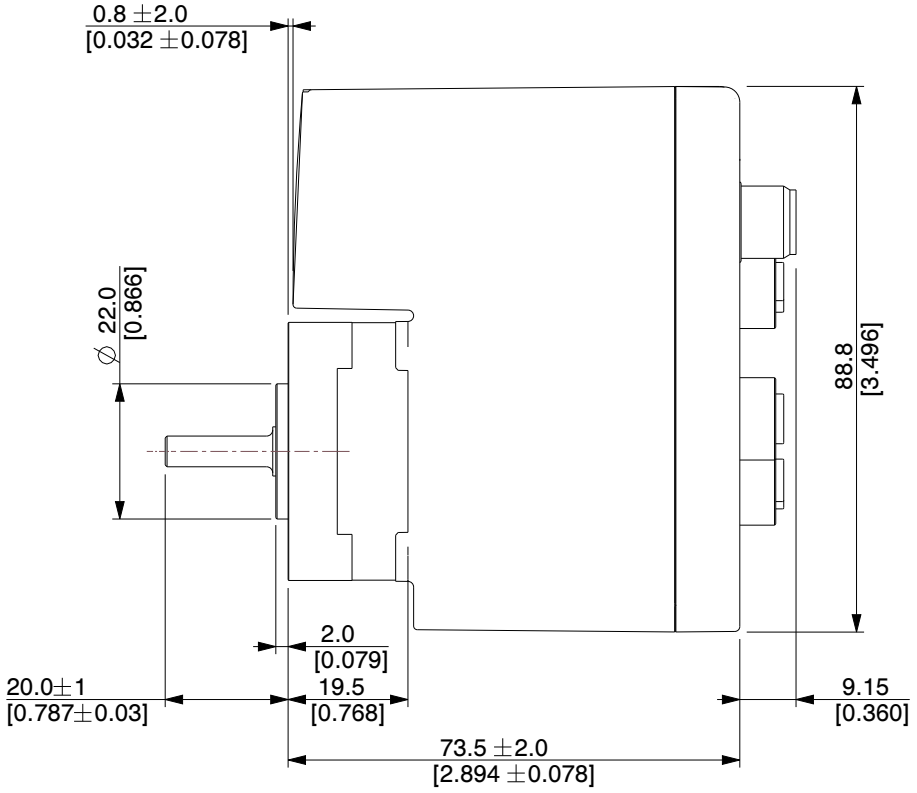
Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
WI1005-M12M17SAA06 M12 17-pin male Axis 6 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA06W M12 17-pin male Axis 6 with wire 1,2m	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication	n/a n/a	Connector No
WI1005-M12M17SAA07 M12 17-pin male Axis 7 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA08 M12 17-pin male Axis 8 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA09 M12 17-pin male Axis 9 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA10 M12 17-pin male Axis 10 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1008-M12M17SR1 M12 Con 17p Male 0° Metal housing 5.4-8.2mm cable	Connector 4	M12 17-pin male A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1009-M12M17T01N M12 Shl Cable 1m 17p Mal 0° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 180° Straight Open Ended - n/a	Basic I/O, Com Standard	17 0.061	1 No
WI1009-M12M17T05N M12 Shl Cable 5m 17p Mal 0° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 180° Straight Open Ended - n/a	Basic I/O, Com Standard	17 0.061	5 No
WI1009-M12M17T10R M12 Shl Cable 10m 17p Mal 0° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 180° Straight Open Ended - n/a	Basic I/O, Com Robotic - 3D	17 0.061	5 No
WI1009-M12M17T20N M12 Shl Cable 20m 17p Mal 0° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 180° Straight Open Ended - n/a	Basic I/O, Com Standard	17 0.061	20 No
WI1009-M12M17TF17T.5 M12 Shl Cable.5m Male17p0°-Female 17p0° twist pair	Connector 4	M12 17-pin male A-coded - 180° Straight M12 17-pin female A-coded - n/a	Basic I/O, Com Standard	17 0.061	0.5 No
WI1009-M12M17TF17T01 M12 Shl Cable 1m Male17p0°-Female 17p0° twist pair	Connector 4	M12 17-pin male A-coded - 180° Straight M12 17-pin female A-coded - n/a	Basic I/O, Com Standard	17 0.061	1 No
WI1009-M12M17TF17T02 M12 Shl Cable 2m Male17p0°-Female 17p0° twist pair	Connector 4	M12 17-pin male A-coded - 180° Straight M12 17-pin female A-coded - n/a	Basic I/O, Com Standard	17 0.061	2 No
WI1009-M12M17TF17T04 M12 Shl Cable 4m Male17p0°-Female 17p0° twist pair	Connector 4	M12 17-pin male A-coded - 180° Straight M12 17-pin female A-coded - n/a	Basic I/O, Com Standard	17 0.061	4 No
WI1009-M12M17V05N M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 90° Angled Open Ended - n/a	Basic I/O, Com Standard	17 0.061	5 No
WI1009-M12M17V05R M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 90° Angled - n/a	Basic I/O, Com Robotic - 3D		5 No
WI1009-M12M17V10N M12 Shl Cable 10m 17p Mal 90° MISxx,Ex41 twisted	Connector 4	M12 17-pin male A-coded - 90° Angled Open Ended - n/a	Basic I/O, Com Standard	17 0.061	10 No
WI1013-M12M17TF4T.4N M12 17pM, 0.45m M8-4pF Shl for MAB MIS	Connector 4	M12 17-pin male A-coded - 180° Straight M08 4-pin female - n/a	Standard	4 0.13	0.45 No
WI1013-M12M17TF4TXAA M12 17pM, 0.45m M8-4pF Shl for MAB + 2m cable MIS	Connector 4	M12 17-pin male A-coded - 180° Straight M08 4-pin female - n/a	Standard		0.45/2 No
RS485-M12-1-5-17 RS485 M12-17pin DSub, 5m v1.1	Connector 4 RS485	- -			

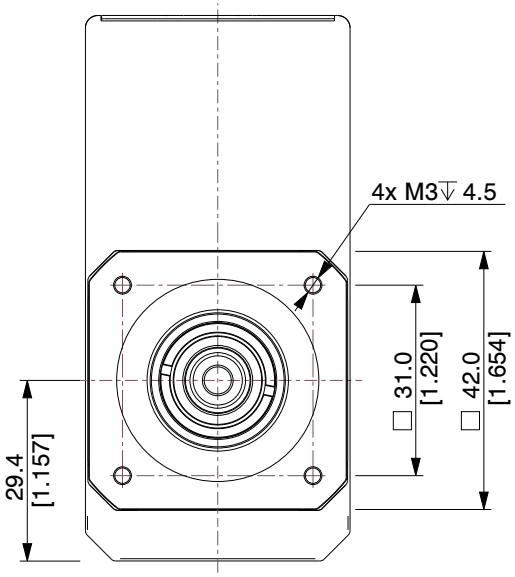


SHAFT DETAILS
SCALE 1.3









NOTES:
1. Operation Modes : Passive, Position, Gear, Velocity.
2. Encoder Type: Internal, magnetic, absolute multiturn Closed loop ready. Resolution per rev.: Displayed: 409600 counts - internal: 4096 counts.

JVL A/S
Bregnerødvej 127
DK-3460 Birkerød
Denmark
JVL
www.jvl.dk

PART NUMBER:

MIS171Q16P6H466

PART DESCRIPTION:

Integrated Stepper Motor

A4	SCALE	NTS
	UNIT	MM [Inch]