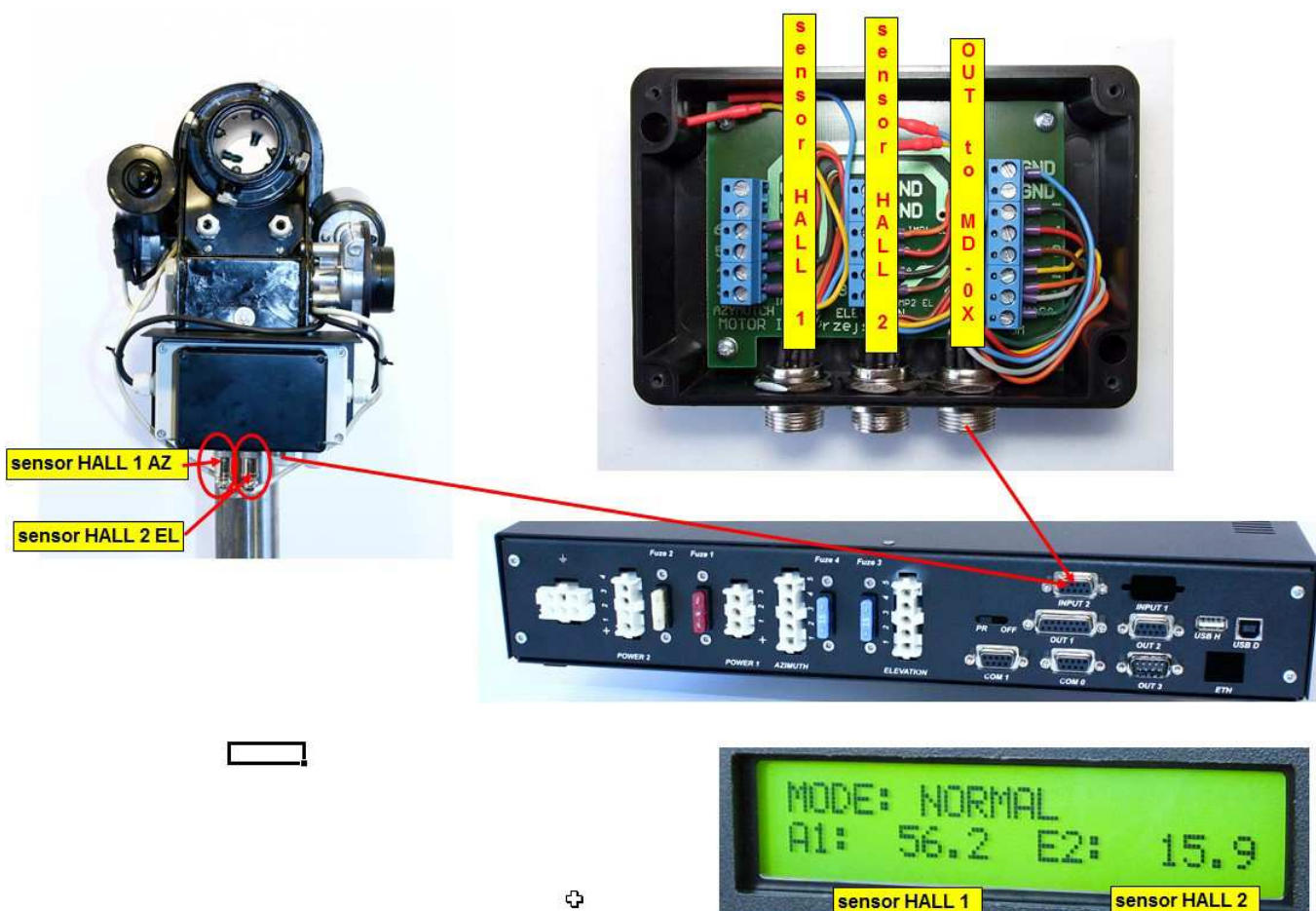


Next pages shows possible configurations of all SPID rotors which are available

There are a number of different combinations of MD-01 Controller and AlfaSpid Rotators as shown below.

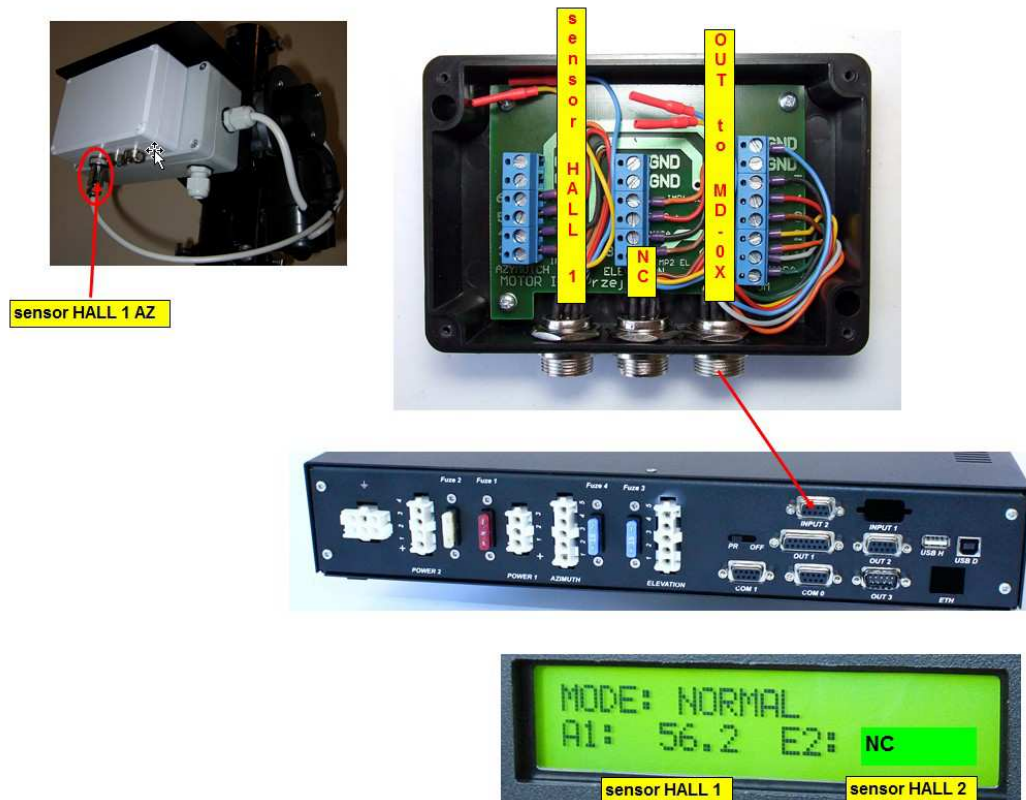
CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
AZIMUTH & ELEVATION (Combination rotor)
MD-01 / MD-02



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

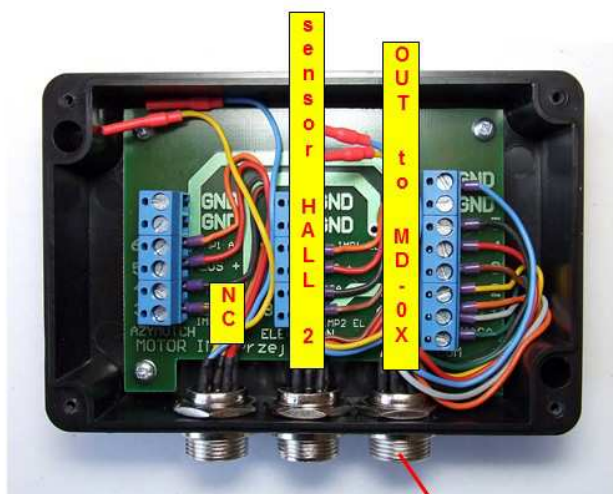
CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
AZIMUTH ONLY
MD-01 / MD-02



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
ELEVATION ONLY
MD-01 / MD-02



sensor HALL2 AZ



sensor HALL 1

sensor HALL 2

Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
ELEVATION + ELEVATION (2 separate rotor)
MD-01 / MD-02



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

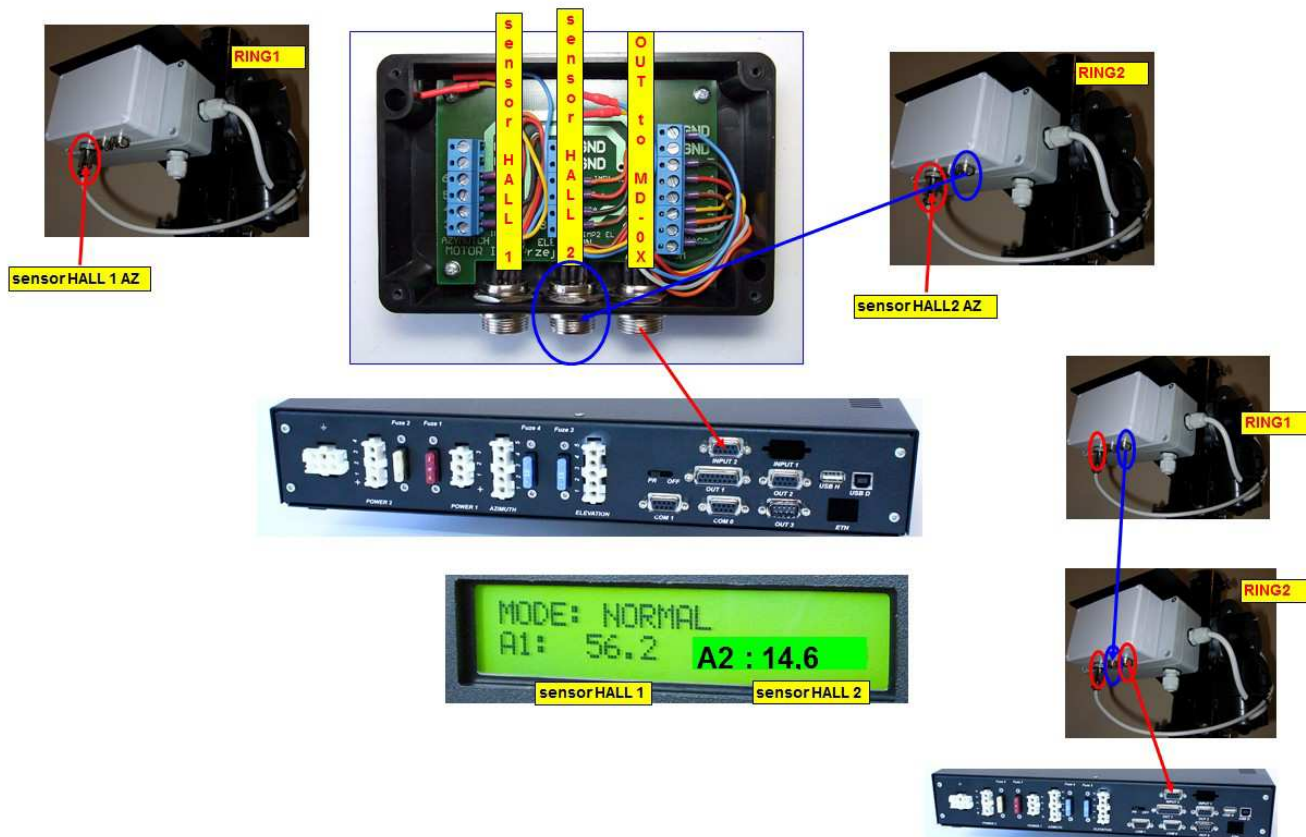
CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
 AZIMUTH + ELEVATION (2 separate rotor)
 MD-01 / MD-02



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
 All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
 RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
RING ROTOR
MD-01 / MD-02



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONFIGURATION POSSIBILITY /HR ROTOR SETUP:
 AZIMUTH + AZIMUTH (2 separate rotor)
 MD-01 / MD-02



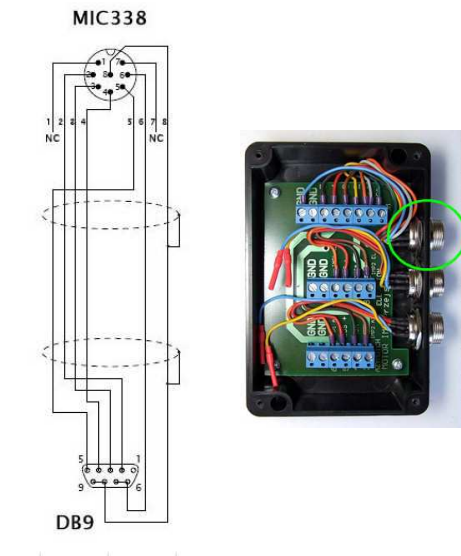
Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
 All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
 RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONNECTOR PIN LAYOUT from MD-01 and MD-02 to ROTOR sensor cable

MIC 338 = ROTOR 8-PIN

DB9 = MD-01 / MD-02 9-PIN SUB-D



SENSOR control cables: (at least 0.15mm²)
 Recommended is when length is longer than 25 meter to use 3
 separate shielded control cables for: (Refer diagram right)
 We can offer you this cable type: CC6-003/50

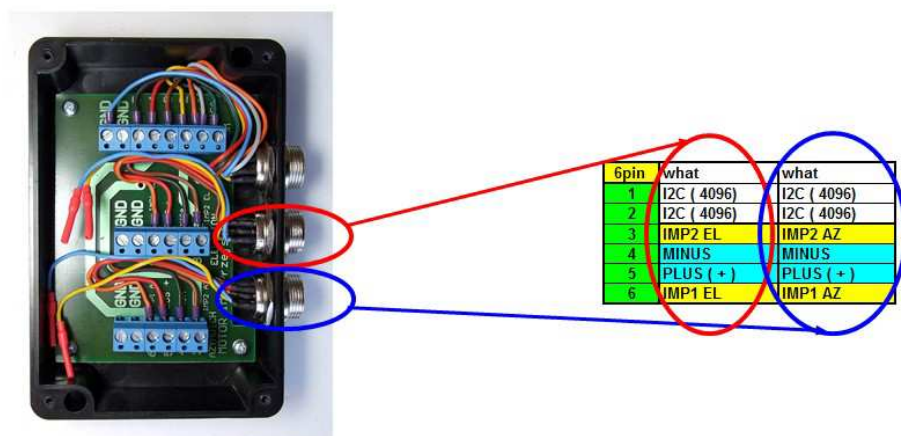
Pin 2 and 3 + screen to ground
 Pin 4 and 5 + screen to ground
 Pin 6-7 and 8-9 + screen to ground

PIN	what	cable
1	NC	
2	IMP2 EL	cable 1 + Ground
3	IMP1 EL	
4	IMP1 AZ	cable 2 + Ground
5	IMP2 AZ	
6	PLUS (+)	cable 3 + Ground
7		
8	MINUS (-)	
9		

You can place shielded cables in a PVC pipe along with the cable
 for the AZ & EL motor power.

Per recommendations: Connect the shields together at the
 MD-01 end ... and connect the shields to the MD-01 chassis and good earth
 Ground !

CONNECTOR PIN LAYOUT sensor cable (already mounted at the sensor)



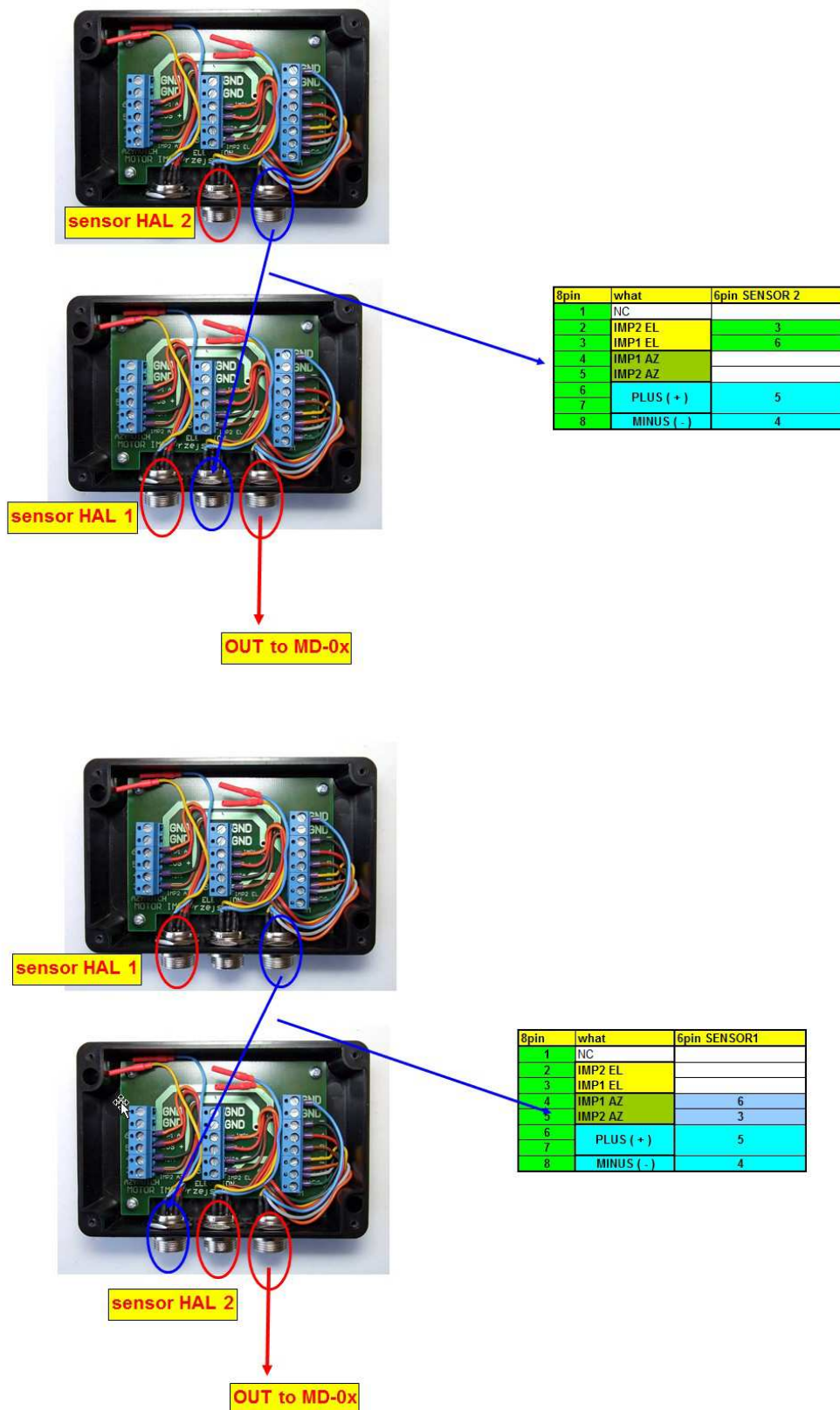
Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. voor alle door ons gesloten overeenkomsten, leveringen en diensten
 gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
 All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
 RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

CONNECTOR PIN LAYOUT ROTOR TO ROTOR

And final MD-01 / MD-02

(this is used when you use 2 separate SPID rotor)



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.

All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005

RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

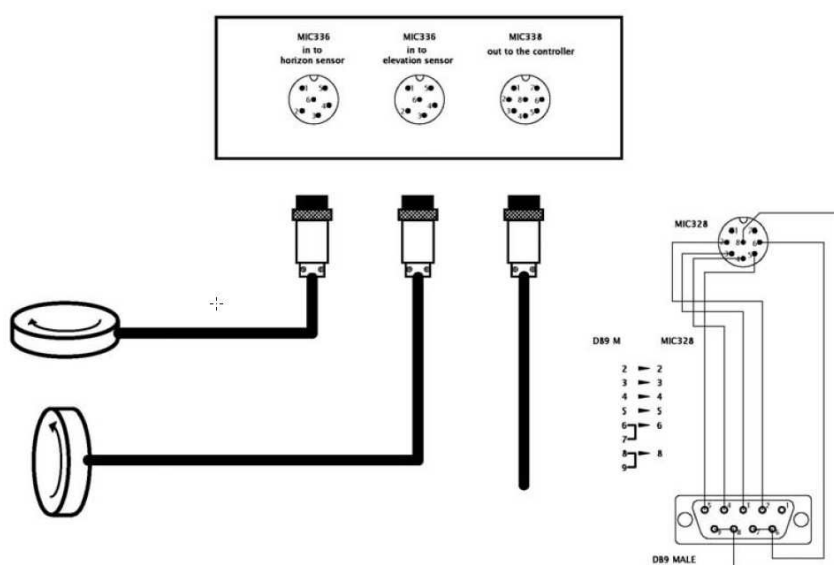
INSTALLATION Notes MD-01 & MD-02

When supplying power to the MD-01 Controller two power cables are required. The first cable is terminated in a 4 pin connector and plugged into the INPUT 1 connector on the controller. This cable is used to supply power to the Rotator Motors. This cable should be connected to a power supply type PS-01 or PS-02.

The second cable is terminated in a 3 pin connector and plugged into the INPUT2 connector on the controller. This cable is used to supply to the controller electronics. This cable should be connected to a power supply type PS-01 or PS-02. (Max voltage 3 pin connector is 15 Volts DC!)

It is highly recommended that a third cable be made. This Cable consists of a single wire of the largest gauge that can fit in the connector. This wire is terminated in the 6 pin connector and plugged into the ground connector on the controller and the station ground.

The connection from rotor to MD-01 / 02 is done as the diagram below (more info also some pages up)



Connectors MD-01 and MD-02:

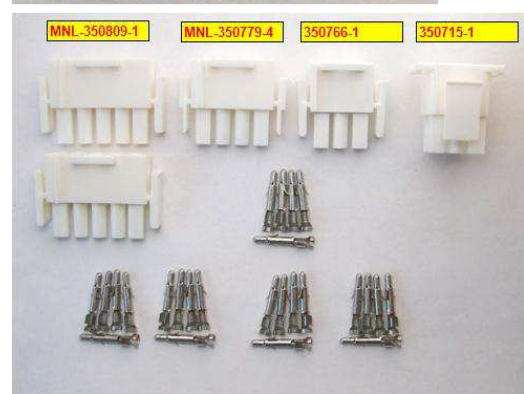
These connectors are standard Tyco Electronics Corp.

Mate-N-Lock connectors and are available at most Electronics Suppliers.

Part numbers are placed in the pictures

Picture:

Mate-N-Lock Pin and Mate-N-Lock Housings



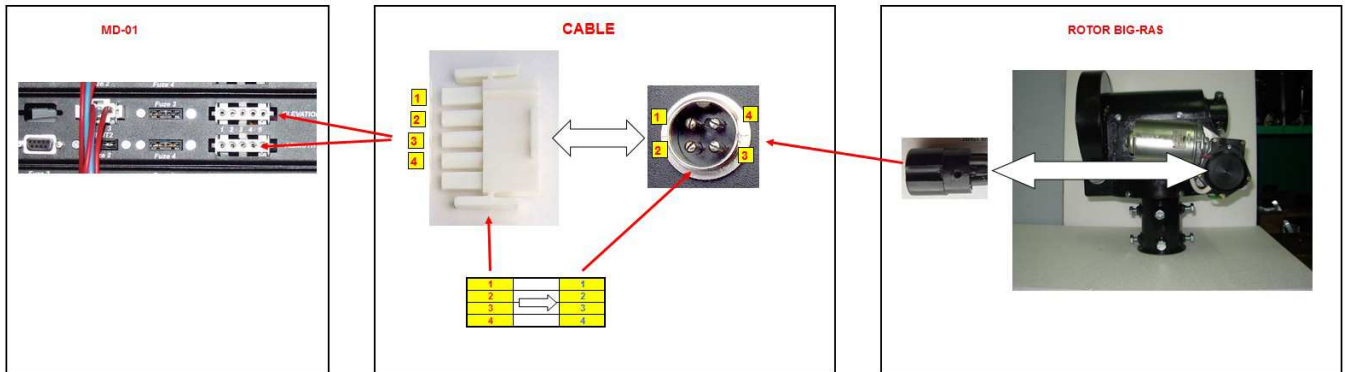
Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

For Customers who have ordered MD-01 / MD-02 and a Standard Puls rotor:

CONNECTOR PIN LAYOUT PULS ROTOR (No HALL Sensor type rotor)

This option is used, when you have ordered a MD-01 or MD-02 and a Standard Rotor (Puls)



At this pictures above you find the layout for this, Picture left is MD-01, but can also be MD-02

SETUP in MD-01 / MD-02

You have to change in setup from HALL Sensor to PULS detection: (standard is HALL sensor)

- Press button S
- Press > button to select motor (1 or 2)
- Press S
- Press > to select INPUT,
- your choice is now for Puls: MECHANICAL (HALL is ELECTRONICAL)
- Select this with up / down button
- Press F to stop and Save change

CONFIGURATION POSSIBILITY ROTOR SETUP:
AZIMUTH & ELEVATION (Combination rotor or Single rotor)
MD-01 / MD-02

On the picture is type MD-01 and MD-02 controller, connectors are the same on each type.

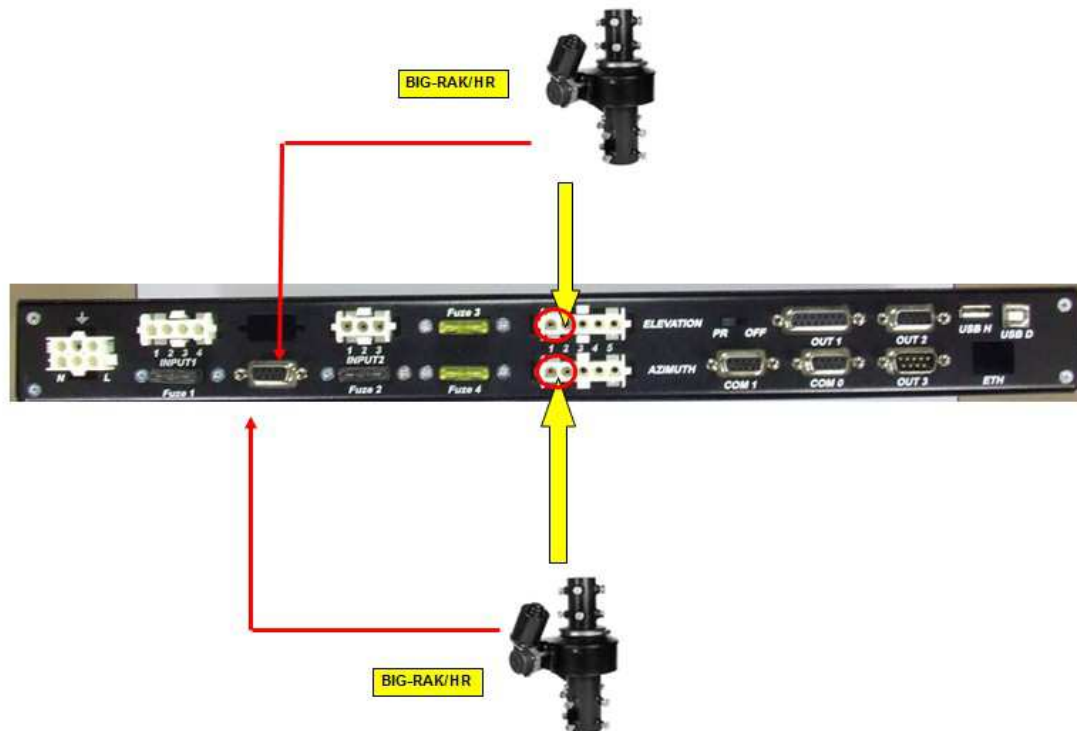


keyboard

Display 2 x 20

ON/OFF Power

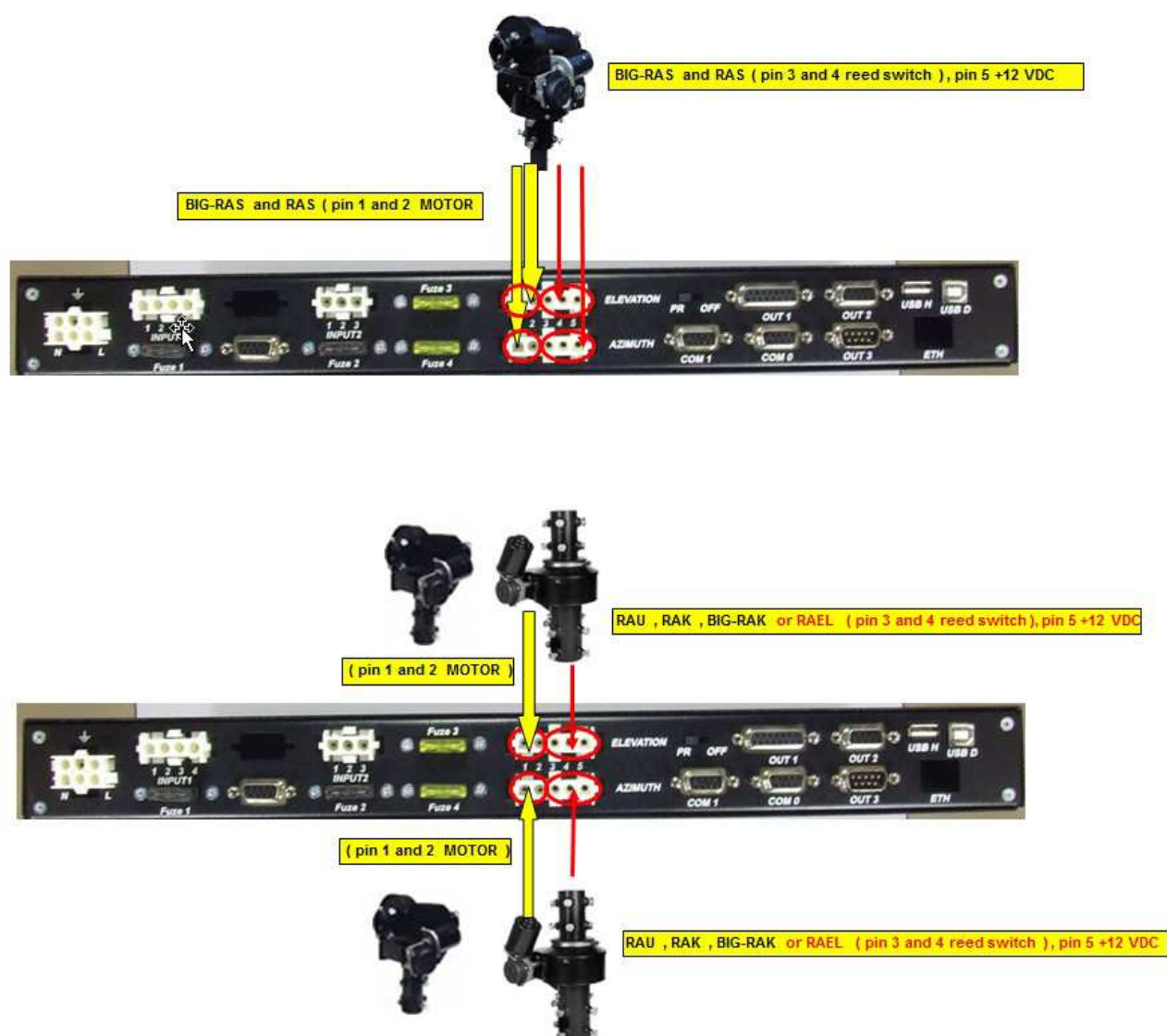
Picture below shows connection of the rotor type /HR:



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

Picture below shows connection of the rotor type Standard (Puls)



Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005

IMPORTAND NOTE:

The MD-01 and MD-02 controllers are standard configured for use with type "BIG" rotors.

This means, when you have ordered a standard type rotor you have to change an important setting to let work the system as expected:

When you have ordered type SPID RAS/HR or RAK/HR the transmission (Gear) must be set to: 0.125
(Standard transmission (Gear) is: 0.0938)

How you change this Gear:....

- Press S button
- Press > button to select the rotor (1 or 2)
- Press S again, you now enter into the Motor menu
- Press > several times to step through the menu and find GEAR
- Press the UP or Down button to change the Gear (step by step)
- When done, Press F button and save you changes

Alle leveringen dienen te worden betaald binnen 30 dagen na factuurdatum. Voor alle door ons gesloten overeenkomsten, leveringen en diensten gelden onze algemene verkoop en leveringsvoorwaarden welke op www.rfhamdesign.com zijn vermeld.
All transactions, deliveries and services are subject to the terms and conditions of delivery which can be found at www.rfhamdesign.com

RF HAMDESIGN is ingeschreven in het handelsregister K.v.K. te Leeuwarden Nr: 01107005
RF HAMDESIGN is written in at the Chamber of Commerce in Leeuwarden, the Netherlands Nr: 01107005