

**DATA SHEET**  
**XY2-DC-2**

**XY2-100 ADAPTER BASE PLATE FOR RHOTHOR SMART DEFLECTORS™**

---

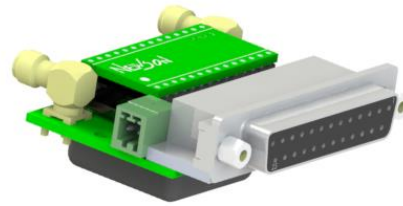
**NEWSON NV**

## Table of Contents

|          |   |          |
|----------|---|----------|
| <b>1</b> | <b>FEATURES .....</b>                             | <b>3</b> |
| <b>2</b> | <b>TYPICAL SETUPS .....</b>                       | <b>3</b> |
| <b>3</b> | <b>INTERNAL SCHEME.....</b>                       | <b>3</b> |
| <b>4</b> | <b>PIN ASSIGNMENT .....</b>                       | <b>4</b> |
| 4.1      | XY2-100 INPUT.....                                | 4        |
| 4.2      | POWER CONNECTOR .....                             | 4        |
| <b>5</b> | <b>XY2-100 STANDARD PROTOCOL INFORMATION.....</b> | <b>5</b> |
| <b>6</b> | <b>DIMENSIONS.....</b>                            | <b>5</b> |

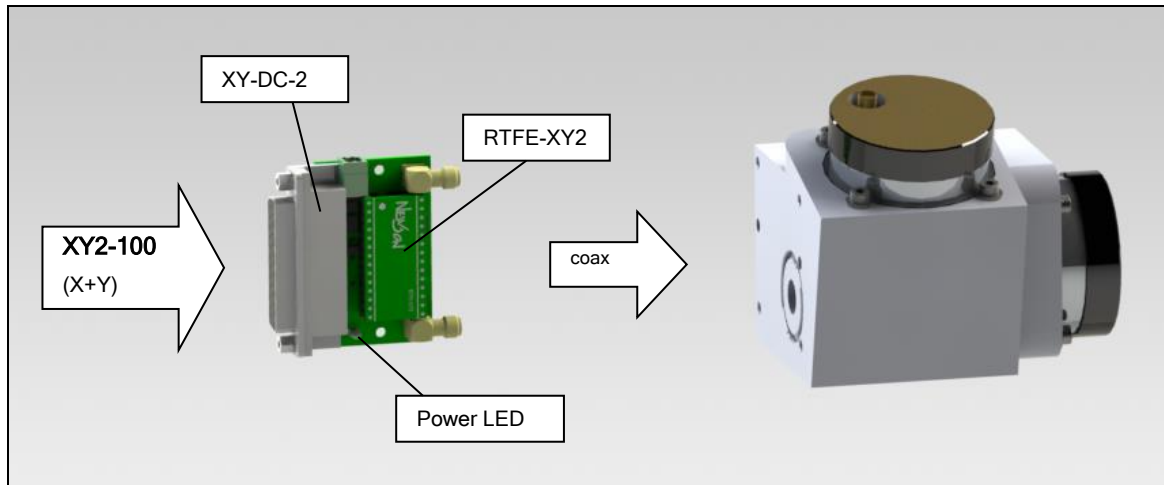
## 1 FEATURES

- Compact baseplate for a single RTFE-XY2 front end IC
- Support for XY2-100 standard with 16-bit set points
- Dual Channel X and Y
- Standard 25 pin DSUB female connector
- Supports scanners generation 3 (RTA-ARXXX-3G)
- Power connection

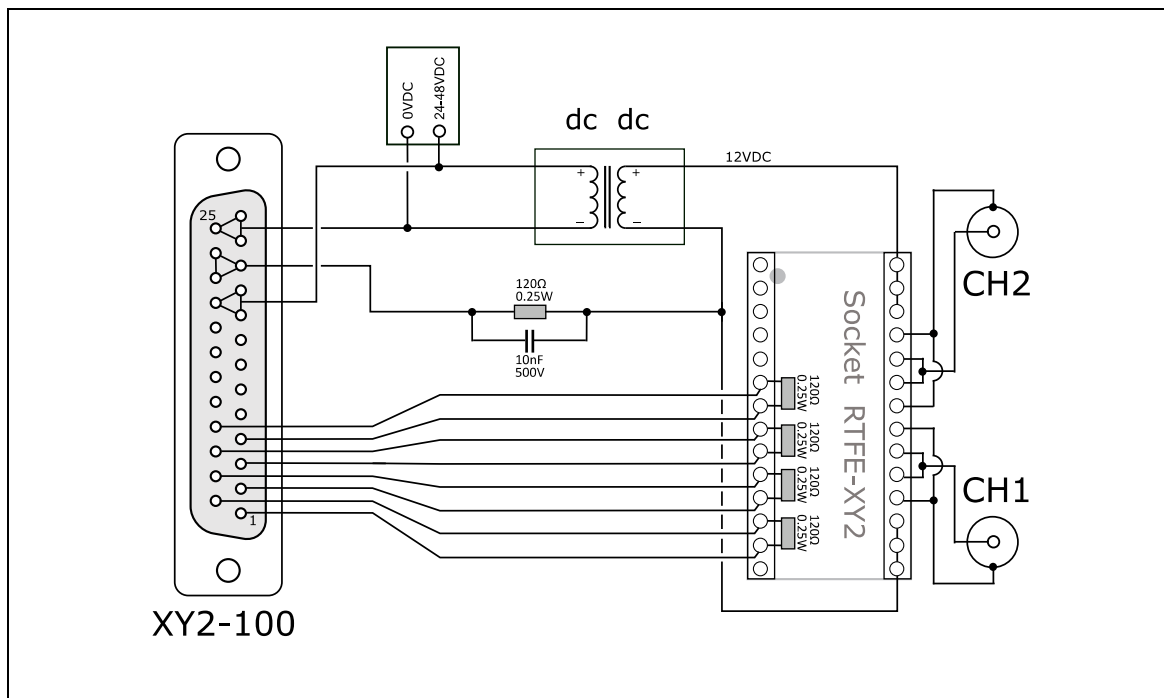


## 2 TYPICAL SETUPS

Connect a third party XY2-100 steering board with a 2D rhotor deflection system using the XY2-DC-2 module equipped with a RTFE-XY2 IC.



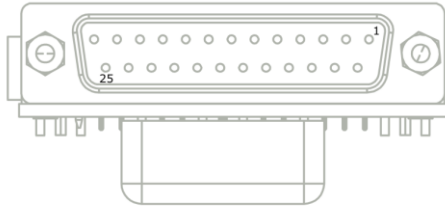
## 3 INTERNAL SCHEME



## 4 PIN ASSIGNMENT

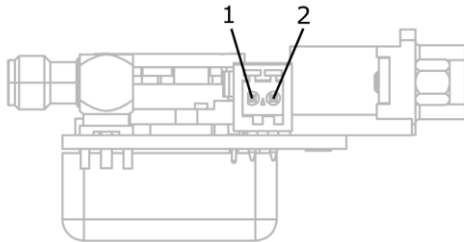
### 4.1 XY2-100 INPUT

Connector Type: 25 pin sub-D socket Female



| Pin No.  | Name        | Description  |
|----------|-------------|--|
| 1 / 14   | IO1- / IO1+ | SENDCK: Continuously running clock, terminated with 120Ω |
| 2 / 15   | IO2- / IO2+ | SYNC: Synchronises data transfer, terminated with 120Ω   |
| 3 / 16   | IO3- / IO3+ | CHANNEL1: Data to Channel1, terminated with 120Ω         |
| 4 / 17   | IO4- / IO4+ | CHANNEL2: Data to Channel2, terminated with 120Ω         |
| 9,10,22  | PWS+        | power supply (24..48VDC)                                 |
| 11,23,24 | REF_IO      | IOX reference  |
| 12,13,25 | PWS-        | power supply return                                      |

### 4.2 POWER CONNECTOR

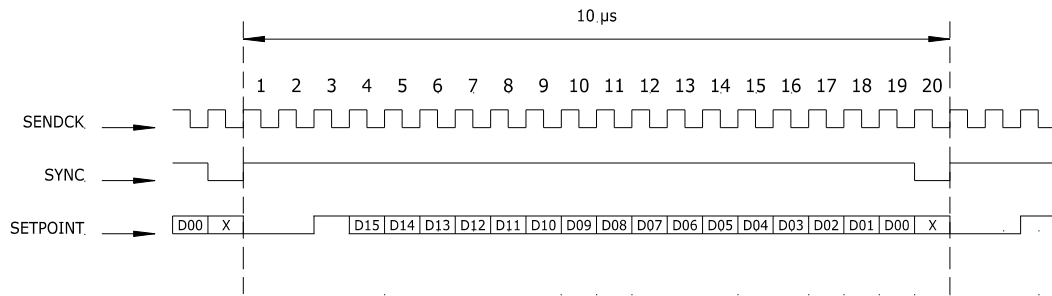


Connector Type: Phoenix MC 0,5/2-G-2,5

Connect only when XY2-100 input cable does not provide scanner power supply input

| Pin No. | Name | Description              |
|---------|------|--------------------------|
| 1       | PWS+ | power supply (24..48VDC) |
| 2       | PWS- | power supply return      |

## 5 XY2-100 STANDARD PROTOCOL INFORMATION



[D15-D00]: Set point, offset binary  
 [F15-F00]: Actual position, offset binary  
 [X]: DC

## 6 DIMENSIONS

