<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description of products and services</th>
<th>Price per unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Blind/Roller Shutter Actuator, 2-fold, 230 V, MDRC</strong></td>
<td>Carry:</td>
<td></td>
</tr>
</tbody>
</table>

To control up to 2 independent blind and roller shutter drives or ventilation flaps (230 V AC):
- Mutually mechanically interlocked outputs
- Power supply only via KNX bus voltage

Software functionality
- Copy and change channels
- Time-delayed switching of drives
- Sending and switching delay after bus voltage recovery
- Request status values via object
- Limited number of telegrams
- Preferred position on bus voltage failure-, recovery, programming and reset
- Safety function (3 x wind alarm, rain alarm, frost alarm with cyclical monitoring, block and forced operation) and reaction on reset of safety function
- Direct commands UP/DOWN, STOP/Slat Adjustment
- Move to position height/slat 0…255
- Move to/set preset Position 1-4 and 8 bit scene
- Dead times of blind/shutter adjustable
- Tensioning function for e.g. awnings and slot positioning for roller shutters
- Limited travel range (adjustable for direct and/or automatic commands)
- Change on direction and delay times for drives adjustable
- Automatic sun protection (position height/slat at sun) and sun tracking
- Heating/cooling automatic with overheat control
- Status messages: height/slat 0…255, upper/lower end position, operability, automatic, status information (2 Byte)
- Controlling ventilation flaps, switch mode with staircase lighting function

**Outputs**
- 2 x 2 parallel relay outputs UP/DOWN
- Power consumption KNX: < 250 mW
- Operating voltage: 21…30 V DC via KNX
- $U_{n}$ rated voltage: max. 230 V AC, 45…65 Hz
- $I_{n}$ rated current: max. 6 A

**Connection**
- Outputs: screw terminals with combination head screws
- KNX: screwless bus connection terminal

**Type of protection**
- IP 20, EN 60 529

**Approval**
- EIB and KNX according to EN 50 090-1, -2

**Installation**
- on 35 mm mounting rail, EN 60 715

**Width**
- 4 Modules at 18 mm

**Manufacturer**
- ABB STOTZ-KONTAKT

**Type**
- JRA/S 2.230.1.1

**Material:** ..........  **Labour:** ..........