System Installation Example

Max Trunk Length See Note 5

See Note 3,4

See Note 3,4

See Note 1,3,4

Rosemount 2410

Rosemount 2240S

Rosemount 2230

Rosemount 5400

Rosemount 5900

Rosemount 644

Rosemount 5300

Max Spur Length 60m

1. There must be a termination on end of trunk. Use built in terminator in SC or an external terminator.

2. FISCO parameters for Tankbus Cables:
   - Loop resistance $R_c$: 15…150 ohm/km
   - Loop inductance $L_c$: 0.4…1mH/km
   - Capacitance per unit length $C_c$: 45…200 nF/km

3. If SC with spur short circuit protection is used, max current limit must be in accordance with the current consumption of the connected devices.

4. Verify min voltage supply to SC on trunk.

5. Depends on segment total current consumption, cable type and min voltage requirement to connected devices.

IMPORTANT!
Always make a segment design to verify:
- Segment max current consumption
- Segment min voltage supply to all devices
- Segment max cable length (trunk + spur)

SC = Segment Coupler
T = Terminator

Trunk = Cable between the power supply and the field device located at the end of the segment.

Spur = Cable connecting a device to the trunk.