

# Basics of Absolute Encoders ACURO

## DeviceNet

### BACKGROUND AND TECHNOLOGY

#### Background

- The basic technology was developed by Allen-Bradley
- Introduced in March 1994
- The ODVA (Open DeviceNet Vendor Association) was founded in April 1995

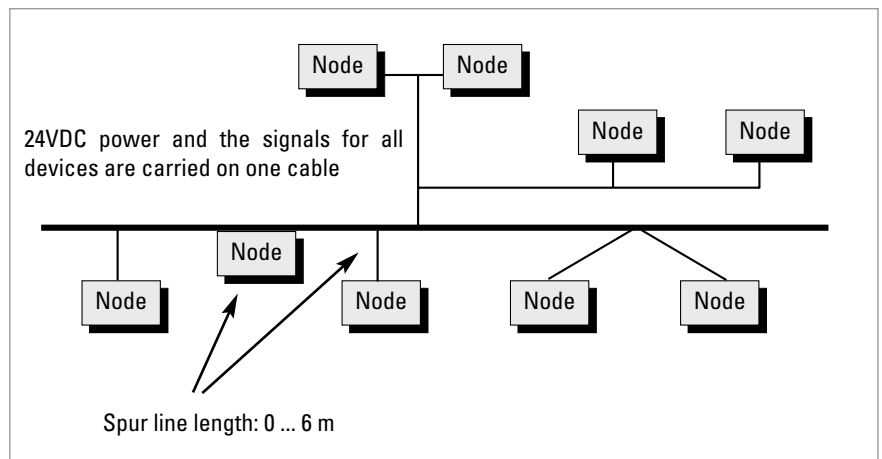
#### Technology

- CAN-Layer 2 (Data Link Layer) - ISO 11898 and 11519-1
- DeviceNet covers layer 7 (Application Layer) and layer 1 (Physical Layer), developed for industrial automation

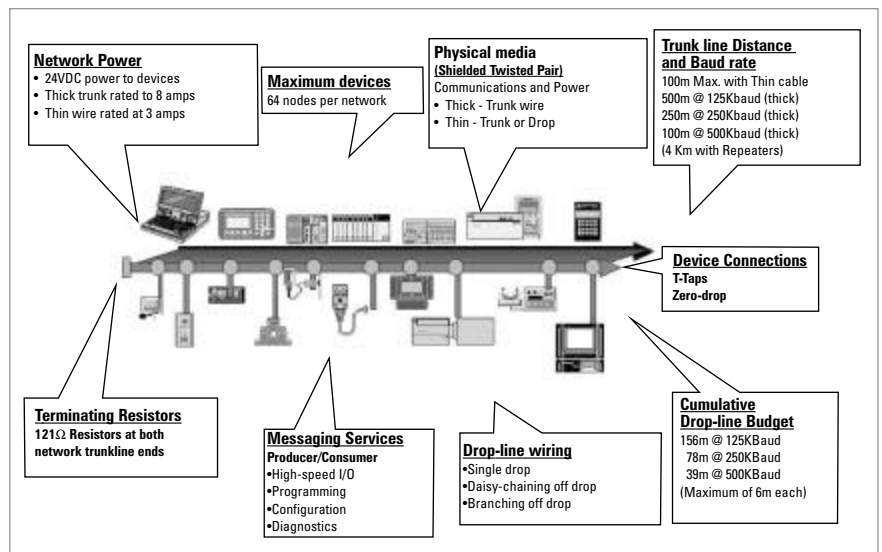
#### Main benefits

- Reduced cabling and installation effort
- Reduced run-in time
- Reduced down-time
- Fast error elimination
- Devices can be removed, replaced and inserted without having to shut the network down
- Devices from various manufacturers can be exchanged
- Devices are configured over the network

### LINEAR BUS TOPOLOGY



### NETWORK SPECIFICATION



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