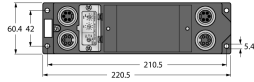


# Repeater module for DeviceNet™

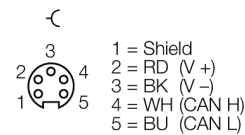
## Repeater for DeviceNet

### REP-DN



- Robust DeviceNet™ repeater
- Protection class IP67
- Fibre-glass reinforced PA6 housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connectors
- Degree of protection IP67

|                                     |               |
|-------------------------------------|---------------|
| Type                                | REP-DN        |
| ID                                  | F0137         |
| Fieldbus                            | DeviceNet     |
| Mechanical and chemical properties  |               |
| Ambient temperature range (dynamic) | -40°C...+70°C |



#### Functional principle

The REP-DN is a potted, fully connectorized repeater. It is very rugged and can be mounted

directly on the machine. Network segments attached together with a repeater are considered separate physical networks (trunk and drop lengths for each segment are determined as if the other segments are not there), but one logical network (addresses cannot be duplicated - the scanner and configuration tools work as a single network).

The repeater does not consume an address and is invisible to all the other devices on the network. The repeater does not have an EDS file.

The REP-DN can be used to extend either the Trunk or the Drop lines. It can also be used to isolate power supplies on networks with multiple supplies.

There is no limit to the number of repeaters that can be used on one network. When a message is repeated a 2 millisecond delay is

introduced. This is typically insignificant compared to the overall scan time of the network when a few repeaters are used. If more than four repeaters are used in series, the inter-scan delay may need to be increased.

The repeater baudrate is set via rotary switch. The baudrate on each side of the repeater must be the same. Different rates would cause the slow side to be overloaded with messages from the fast side.

**Network LED status**

| LED           | Color | Status   | Description          |
|---------------|-------|----------|----------------------|
| Network A / B | Amber | ON       | Determining Baudrate |
|               | Green | ON       | Repeating            |
|               | Green | FLASHING | Ready                |
|               | RED   | ON       | Cannot repeat        |