The MK35-Li-Ex0 is a current repeater designed to isolate and transmit an analogue current signal from a safe area to a hazardous area without attenuation (1:1 transfer).

The driver is typically used to drive I/P transducers (e.g., for valve control) or display devices located in hazardous areas.

If transfer of digital information to HART terminals is required in addition to analogue data transfer, there are HART-compatible Ex output isolators available.

Type names:
- MK35-11-Ex-HLi
- MK35-11Ex-HLi/24VDC
### Current Repeaters

<table>
<thead>
<tr>
<th>Type</th>
<th>Ident-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MK35-Li-Ex0</strong></td>
<td>75 065</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supply Voltage $U_b$</th>
<th>19...29 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ripple $W_{pp}$</td>
<td>≤ 10 %</td>
</tr>
<tr>
<td>Current consumption</td>
<td>approx. 60 mA</td>
</tr>
<tr>
<td>Galvanic isolation</td>
<td>between input circuit, output circuit and supply voltage for 250 V$<em>{rms}$, test voltage 2.5 kV$</em>{rms}$</td>
</tr>
</tbody>
</table>

#### Input Circuits
- Input resistance: 100 Ω
- Operating characteristics: 0...20 mA (< 40 mA)

#### Output Circuits
- Intrinsically safe according to EN 50020
- Output current: 0...20 mA
- Load impedance: ≤ 500 Ω

#### Ex-Approvals acc. to Certificate of Conformity
<table>
<thead>
<tr>
<th>BVS 90.C.2008</th>
</tr>
</thead>
</table>

#### Maximum values
- No load voltage $U_0$: 13.6 V
- Short-circuit current $I_s$: 60 mA
- Maximum external inductances/capacitances:
  - [EEx ia] IIC: 5 mH/169 nF (alternatively: 1 mH/295 nF)
  - [EEx ib] IIC: 10 mH/900 nF

#### Transfer Characteristics
- Linearity tolerance: ≤ 0.2 % of final value
- Load impedance: ≤ 0.01 %
- Effect of load impedance: ≤ 0.01 %
- Ambient temperature sensitivity: ≤ 0.01 %/K of final value
- Pulse rise time (10 %...90 %): < 50 ms
- Release time (90 %...10 %): < 50 ms

#### LED Indications
- Power "ON": green

#### Housing
- 8-pole, 18 mm wide, Polycarbonate/ABS
- Flammability class V-0 per UL 94
- Snap-on clamps for top-hat rail (DIN 50022)
- Screw terminals for panel mounting
- Via flat terminals with self-lifting pressure plates with wire sleeves
- Degree of protection (IEC 60529/EN 60529): IP20
- Operating temperature: -25... +60 °C