## FIELD BUS

### Power Hub with Power Supply Modules

<table>
<thead>
<tr>
<th>Power Supply Module</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLD2-FBPS-1.25.360</td>
<td>Fieldbus Power Supply, 25 V/360 mA, stand-alone, DIN-rail mountable</td>
</tr>
<tr>
<td>HD2-FBPS-1.25.360</td>
<td>Fieldbus Power Supply, 25 V/360 mA, motherboard mountable</td>
</tr>
<tr>
<td>HD2-FBPS-1.500</td>
<td>Fieldbus Power Supply, 30 V/500 mA, motherboard mountable</td>
</tr>
<tr>
<td>HD2-FBPS-1.23.500</td>
<td>Fieldbus Power Supply, 23 V/500 mA, motherboard mountable</td>
</tr>
<tr>
<td>HD2-FBPS-1.17.500</td>
<td>Fieldbus Power Supply, 17 V/500 mA, motherboard mountable</td>
</tr>
</tbody>
</table>

### Power Hub Motherboard

<table>
<thead>
<tr>
<th>Power Hub Motherboard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-FB-1R</td>
<td>Power Hub Motherboard, 1 channel, redundant</td>
</tr>
<tr>
<td>MB-FB-2R</td>
<td>Power Hub Motherboard, 2 channels, redundant</td>
</tr>
<tr>
<td>MB-FB-4</td>
<td>Power Hub Motherboard, 4 channels</td>
</tr>
<tr>
<td>MB-FB-4R</td>
<td>Power Hub Motherboard, 4 channels, redundant</td>
</tr>
<tr>
<td>MBHD-FB-4R</td>
<td>Power Hub Motherboard, high-density design, 4 channels, redundant</td>
</tr>
</tbody>
</table>

### Advanced Diagnostic Module (ADM) for Power Hub

<table>
<thead>
<tr>
<th>ADM</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD2-DM-A</td>
<td>Advanced Diagnostic Module, auxiliary module for physical layer diagnostics, motherboard mountable</td>
</tr>
</tbody>
</table>

### Segment Protector

<table>
<thead>
<tr>
<th>Segment Protector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2-SP-N4</td>
<td>Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation</td>
</tr>
<tr>
<td>R2-SP-N6</td>
<td>Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 6 channels, for cabinet and enclosed installation</td>
</tr>
<tr>
<td>R2-SP-N8</td>
<td>Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 8 channels, for cabinet and enclosed installation</td>
</tr>
<tr>
<td>R2-SP-N10</td>
<td>Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation</td>
</tr>
<tr>
<td>R2-SP-N12</td>
<td>Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation</td>
</tr>
<tr>
<td>RM-SPTM-N2</td>
<td>Fieldbus distribution interface, Modular Segment Protector with trunk short circuit protection, Trunk module, 2 output channels</td>
</tr>
<tr>
<td>RM-SPEM-N4</td>
<td>Fieldbus distribution interface, Modular Segment Protector with trunk short circuit protection, Extension module, 4 output channels</td>
</tr>
</tbody>
</table>

### Field Barrier

<table>
<thead>
<tr>
<th>Field Barrier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD0-FB-Ex4</td>
<td>Field Barrier, Fieldbus distribution interface 4 intrinsically safe outputs in acc.to FISCO, fixed connectors</td>
</tr>
<tr>
<td>RD0-FB-Ex4.COM</td>
<td>Field Barrier, Fieldbus distribution interface 4 intrinsically safe outputs in acc.to FISCO, pluggable connectors</td>
</tr>
</tbody>
</table>
### REMOTE I/O

#### Stations/Backplane Zone 2 or safe area

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 9022</td>
<td>LB-Backplane, redundant for 12 single or 6 double modules, 3 power supplies</td>
</tr>
<tr>
<td>LB 9023</td>
<td>LB-Backplane, base unit for 8 single or 4 double modules, 1 power supply</td>
</tr>
<tr>
<td>LB 9024</td>
<td>LB-Backplane, extension unit for 22 single or 11 double modules, 3 power supplies</td>
</tr>
<tr>
<td>LB 9025</td>
<td>LB-Backplane, extension unit for 8 single or 4 double modules, 1 power supply</td>
</tr>
<tr>
<td>LB 9026</td>
<td>LB-Backplane, base unit for 16 single or 8 double modules, 2 power supplies</td>
</tr>
<tr>
<td>LB 9027</td>
<td>LB-Backplane, extension unit for 16 single or 8 double modules, 2 power supplies</td>
</tr>
<tr>
<td>LB 9029</td>
<td>LB-Backplane, redundant for 12 single or 6 double modules, 3 power supplies</td>
</tr>
<tr>
<td>LB 9035</td>
<td>LB-Backplane, Foundation Fieldbus for 5 double modules, 1 power supply</td>
</tr>
</tbody>
</table>

#### Power Supply Zone 2 or safe area

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 9006</td>
<td>Power supply, 24V DC</td>
</tr>
</tbody>
</table>

#### Communications Unit Zone 2 or safe area

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 8105</td>
<td>PROFIBUS ComUnit (Standard)</td>
</tr>
<tr>
<td>LB 8106</td>
<td>EasyCom ComUnit (PROFIBUS)</td>
</tr>
<tr>
<td>LB 8107</td>
<td>MODBUS ComUnit</td>
</tr>
<tr>
<td>LB 8108</td>
<td>PROFIBUS ComUnit (Timestamp)</td>
</tr>
<tr>
<td>LB 8109</td>
<td>PROFIBUS ComUnit (UniCom)</td>
</tr>
<tr>
<td>LB 8110</td>
<td>FF ComUnit</td>
</tr>
</tbody>
</table>

#### Digital Input Zone 2 or safe area

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 1x01</td>
<td>Digital input, 2 isolated channels</td>
</tr>
<tr>
<td>LB 1x02</td>
<td>Digital input, 3 channels</td>
</tr>
<tr>
<td>LB 1x03</td>
<td>Digital input, 1 channel, frequency, counter</td>
</tr>
<tr>
<td>LB 1007</td>
<td>Digital input, 7 channels</td>
</tr>
<tr>
<td>LB 1x08</td>
<td>Digital input, 8 channels</td>
</tr>
<tr>
<td>LB 1014</td>
<td>Digital input, 15 channels, 230V</td>
</tr>
<tr>
<td>LB 1015</td>
<td>Digital input, 15 channels, 24V</td>
</tr>
</tbody>
</table>

*model code x = 0 Non IS, x = 1 IS (intrinsically safe)*
### Digital output with feedback Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 2101</td>
<td>Digital out with feedback, 22V, 315 Ohm</td>
</tr>
<tr>
<td>LB 2102</td>
<td>Digital out with feedback, 24V, 210 Ohm</td>
</tr>
<tr>
<td>LB 2103</td>
<td>Digital out with feedback, 24V, 360 Ohm</td>
</tr>
<tr>
<td>LB 2104</td>
<td>Digital out with feedback, 22V, 220 Ohm</td>
</tr>
<tr>
<td>LB 2105</td>
<td>Digital out with feedback, 22.8V, 290 Ohm</td>
</tr>
<tr>
<td>LB 2112</td>
<td>Digital out with feedback, 25.3V, 329 Ohm</td>
</tr>
<tr>
<td>LB 2113</td>
<td>Digital out with feedback, 26.7V, 509 Ohm</td>
</tr>
</tbody>
</table>

### Digital output (Relay) Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 6101</td>
<td>Relay output, 2 channels, 230V</td>
</tr>
<tr>
<td>LB 6005</td>
<td>Relay output, 4 channels, 230V</td>
</tr>
<tr>
<td>LB 6006</td>
<td>Relay output, 8 channels, 24V non IS</td>
</tr>
</tbody>
</table>

### Digital output, active Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 6108</td>
<td>Digital output, 8 channels, 20V, 8mA low power</td>
</tr>
</tbody>
</table>

### Digital output, active Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 6110</td>
<td>Digital out, 4 channels, 24.5V, 370 Ohms</td>
</tr>
<tr>
<td>LB 6111</td>
<td>Digital out, 4 channels, 24.5V, 320 Ohms</td>
</tr>
<tr>
<td>LB 6112</td>
<td>Digital out, 4 channels, 17V, 185 Ohms</td>
</tr>
<tr>
<td>LB 6113</td>
<td>Digital out, 4 channels, 23V, 290 Ohms</td>
</tr>
<tr>
<td>LB 6114</td>
<td>Digital out, 4 channels, 23V, 355 Ohms</td>
</tr>
<tr>
<td>LB 6115</td>
<td>Digital out, 4 channels, 16.2V, 78 Ohms</td>
</tr>
</tbody>
</table>

### Analog input (current) Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 3102</td>
<td>Analog input, 1 channel, HART</td>
</tr>
<tr>
<td>LB 3105</td>
<td>Analog input, 4 channels, HART</td>
</tr>
</tbody>
</table>
### Analog input (Temperature, voltage) Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 5101</td>
<td>Analog input, RTD</td>
</tr>
<tr>
<td>LB 5102</td>
<td>Analog input, thermocouples, mV</td>
</tr>
<tr>
<td>LB 5104</td>
<td>Analog input, RTD, 4 channels</td>
</tr>
<tr>
<td>LB 5105</td>
<td>Analog input, thermocouples, mV, 4 channels</td>
</tr>
<tr>
<td>LB 5106</td>
<td>Analog input, 10V</td>
</tr>
</tbody>
</table>

### Analog output (current) Zone 2 or safe area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 4102</td>
<td>Analog output, HART</td>
</tr>
<tr>
<td>LB 4105</td>
<td>Analog output, HART, 4 channels</td>
</tr>
</tbody>
</table>

### Stations/Backplane Zone 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 9224</td>
<td>FB base unit, 24 I/O slots</td>
</tr>
<tr>
<td>FB 9225</td>
<td>FB redundancy unit</td>
</tr>
<tr>
<td>FB 9226</td>
<td>FB station, 10 I/O slots</td>
</tr>
<tr>
<td>FB 9248</td>
<td>FB base and extension unit, 48 I/O slots</td>
</tr>
<tr>
<td>FB 9249</td>
<td>FB redundant station, 48 I/O slots</td>
</tr>
<tr>
<td>FB 9251</td>
<td>FB Foundation Fieldbus Modular I/O, 5 dual slots</td>
</tr>
</tbody>
</table>

### Power Supplies Zone 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 9206</td>
<td>Power supply 24V DC</td>
</tr>
<tr>
<td>FB 9215</td>
<td>Power supply 230V AC</td>
</tr>
<tr>
<td>FB 9216</td>
<td>Power supply 115V AC</td>
</tr>
</tbody>
</table>

### Bus termination modules Zone 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 9293</td>
<td>Bus termination module for servicebus</td>
</tr>
<tr>
<td>FB 9294</td>
<td>Bus termination module for fieldbus</td>
</tr>
<tr>
<td>FB 9295</td>
<td>Bus termination module for field- and service bus</td>
</tr>
</tbody>
</table>
### Communication units Zone 1

| FB 8205 | PROFIBUS ComUnit (Standard) |
| FB 8206 | EasyCOM ComUnit (PROFIBUS) |
| FB 8207 | MODBUS ComUnit |
| FB 8209 | PROFIBUS ComUnit (UniCom) |
| FB 8210 | FF ComUnit |

### Digital input Zone 1

| FB 1201 | Digital input, 2 isolated channels |
| FB 1202 | Digital input, 3 channels |
| FB 1203 | Digital input, 1 channel, frequency, counter |
| FB 1208 | Digital input, 8 channels |

### Digital output with feedback Zone 1

| FB 2201 | Digital out with feedback, 22V, 315 Ohm |
| FB 2202 | Digital out with feedback, 24V, 210 Ohm |
| FB 2203 | Digital out with feedback, 24V, 360 Ohm |
| FB 2204 | Digital out with feedback, 22V, 220 Ohm |
| FB 2205 | Digital out with feedback, 22.8V, 290 Ohm |
| FB 2212 | Digital out with feedback, 25.3V, 329 Ohm |
| FB 2213 | Digital out with feedback, 26.7V, 509 Ohm |

### Digital output, relay Zone 1

| FB 6301 | Relay output, 2 channels, 230V |
| FB 6305 | Relay output, 4 channels, 230V |
| FB 6306 | Relay output, 8 channels, 24V |

### Digital output Zone 1

| FB 6208 | Digital output, 8 channels, 20V, 8mA low power |
### Digital output, active Zone 1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 6210</td>
<td>Digital out, 4 channels, 24.5 V, 370 Ohms</td>
</tr>
<tr>
<td>FB 6211</td>
<td>Digital out, 4 channels, 24.5 V, 320 Ohms</td>
</tr>
<tr>
<td>FB 6212</td>
<td>Digital out, 4 channels, 17 V, 185 Ohms</td>
</tr>
<tr>
<td>FB 6213</td>
<td>Digital out, 4 channels, 23 V, 290 Ohms</td>
</tr>
<tr>
<td>FB 6214</td>
<td>Digital out, 4 channels, 23 V, 355 Ohms</td>
</tr>
<tr>
<td>FB 6215</td>
<td>Digital out, 4 channels, 16.2 V, 78 Ohms</td>
</tr>
</tbody>
</table>

### Analog input (current) Zone 1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 3202</td>
<td>Analog input, 1 channel, HART</td>
</tr>
<tr>
<td>FB 3205</td>
<td>Analog input, 4 channels, HART</td>
</tr>
</tbody>
</table>

### Analog input (Temperature, voltage) Zone 1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 5201</td>
<td>Analog input, RTD</td>
</tr>
<tr>
<td>FB 5202</td>
<td>Analog input, thermocouples, mV</td>
</tr>
<tr>
<td>FB 5204</td>
<td>Analog input, RTD, 4 channels</td>
</tr>
<tr>
<td>FB 5205</td>
<td>Analog input, thermocouples, mV, 4 channels</td>
</tr>
<tr>
<td>FB 5206</td>
<td>Analog input, 10V</td>
</tr>
</tbody>
</table>

### Analog output (current) Zone 1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 4202</td>
<td>Analog output, HART</td>
</tr>
<tr>
<td>FB 4205</td>
<td>Analog output, HART, 4 channels</td>
</tr>
</tbody>
</table>
### K-SYSTEM

#### Isolated Barriers

#### Switch Amplifiers (24 DC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD2-SR2-Ex1.W</td>
<td>1-channel; 1 relay output with 1 changeover contact</td>
</tr>
<tr>
<td>KFD2-SR2-Ex1.W.LB</td>
<td>1-channel; signal output (changeover contact) and optionally signal output/fault signal</td>
</tr>
<tr>
<td>KFD2-SR2-Ex2.W</td>
<td>2-channel; 1 signal output with 1 changeover contact per channel</td>
</tr>
<tr>
<td>KFD2-SR2-Ex2.W.SM</td>
<td>1-channel; additional input for rotation direction or start-up override; 2 relay outputs</td>
</tr>
<tr>
<td>KFD2-SR2-Ex2.2S</td>
<td>2-channel; 1 relay output per channel with 2 NO contacts each</td>
</tr>
<tr>
<td>KFD2-SOT2-Ex1.LB.IO</td>
<td>1-channel; signal output and either signal output or error message; outputs galvanically isolated</td>
</tr>
<tr>
<td>KFD2-SOT2-Ex2.LB.IO</td>
<td>2-channel; 1 passive transistor output, depolarized per channel</td>
</tr>
</tbody>
</table>

#### Switch Amplifiers (115/230 V AC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFA5-SR2-Ex1.W</td>
<td>1-channel; 1 relay output with 1 changeover contact</td>
</tr>
<tr>
<td>KFA6-SR2-Ex1.W</td>
<td>1-channel; 1 relay output with 1 changeover contact</td>
</tr>
<tr>
<td>KFA5-SR2-Ex1.W.LB</td>
<td>1-channel; signal output (changeover contact) and optionally signal output/fault signal</td>
</tr>
<tr>
<td>KFA6-SR2-Ex1.W.LB</td>
<td>1-channel; signal output (changeover contact) and optionally signal output/fault signal</td>
</tr>
<tr>
<td>KFA5-SR2-Ex2.W</td>
<td>2-channel; 1 relay output with 1 changeover contact per channel</td>
</tr>
<tr>
<td>KFA6-SR2-Ex2.W</td>
<td>2-channel; 1 relay output with 1 changeover contact per channel</td>
</tr>
<tr>
<td>KFA5-SR2-Ex2.W.IR</td>
<td>2-channel; 1 signal output with 2 changeover contacts</td>
</tr>
<tr>
<td>KFA6-SR2-Ex2.W.IR</td>
<td>2-channel; 1 signal output with 2 changeover contacts</td>
</tr>
</tbody>
</table>

#### Solenoid Driver

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD0-SD2-Ex1.1045</td>
<td>1-channel; current limit 45 mA</td>
</tr>
<tr>
<td>KFD0-SD2-Ex2.1045</td>
<td>2-channel; current limit 45 mA</td>
</tr>
<tr>
<td>KFD0-SD2-Ex1.1065</td>
<td>1-channel; current limit 65 mA</td>
</tr>
<tr>
<td>KFD0-SD2-Ex1.1180</td>
<td>1-channel; current limit 80 mA</td>
</tr>
<tr>
<td>KFD0-SD2-Ex2.1245</td>
<td>2-channel; current limit 45 mA</td>
</tr>
<tr>
<td>KFD0-SD2-Ex1.10100</td>
<td>1-channel; current limit 45 mA</td>
</tr>
</tbody>
</table>

#### Transmitter Power Supply (24 V DC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD2-STC4-Ex1</td>
<td>1-channel; HART capable; 1 output 4…20 mA source</td>
</tr>
<tr>
<td>KFD2-STC4-Ex1.2O</td>
<td>1-channel; HART capable; 2 outputs 4…20 mA source</td>
</tr>
<tr>
<td>KFD2-STC4-Ex2</td>
<td>2-channel; HART capable; 2 outputs 4…20 mA source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex1-2</td>
<td>1-channel; HART capable; 1 output 1…5 V source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex1-1</td>
<td>1-channel; HART capable; 1 output 2…10 V source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex1.2O-1</td>
<td>1-channel; HART capable; 2 outputs 1…5 V source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex1.2O-2</td>
<td>1-channel; HART capable; 1 outputs 2…10 V source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex2-1</td>
<td>2-channel; HART capable; 2 outputs 1…5 V source</td>
</tr>
<tr>
<td>KFD2-STV4-Ex2-2</td>
<td>2-channel; HART capable; 2 outputs 2…10 V source</td>
</tr>
<tr>
<td>KFD2-CR4-Ex1</td>
<td>1-channel; 1 output 4…20 mA source</td>
</tr>
<tr>
<td>KFD2-CR4-Ex1.2O</td>
<td>1-channel; 2 outputs 4…20 mA source</td>
</tr>
<tr>
<td>KFD2-CR4-Ex2</td>
<td>2-channel; 2 outputs 4…20 mA source</td>
</tr>
</tbody>
</table>
### Universal Signal Converters

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFU8-UFC-Ex1.D</td>
<td>1-channel; analog output 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFU8-UFT-Ex2.D</td>
<td>2-channel; analog output 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFU8-GUT-Ex1.D</td>
<td>1-channel; analog output 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFU8-CRG2-Ex1.D</td>
<td>1-channel; analog output 0/4 mA ... 20 mA</td>
</tr>
</tbody>
</table>

### Temperature Converter (24 V DC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD2-UT2-Ex1</td>
<td>1-channel; analog current output 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFD2-UT2-Ex1-1</td>
<td>1-channel; voltage output 0/1 ... 5 V</td>
</tr>
<tr>
<td>KFD2-UT2-Ex2</td>
<td>2-channel; 2 analog current outputs 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFD2-UT2-Ex2-1</td>
<td>2-channel; 2 voltage outputs 0/1 ... 5 V</td>
</tr>
</tbody>
</table>

### Smart Current Driver (24 V DC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD2-SCD2-Ex1.LK</td>
<td>1-channel; HART capable; 4…20 mA current output</td>
</tr>
<tr>
<td>KFD2-SCD2-Ex2.LK</td>
<td>2-channel; HART capable; 4…20 mA current output</td>
</tr>
</tbody>
</table>

### K-SYSTEM

### Signal Conditioner

### Transmitter Power Supply (24 V DC Supply Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD2-STC4-1</td>
<td>1-channel; HART capable; 1 output 4...20 mA source</td>
</tr>
<tr>
<td>KFD2-STC4-1.2O</td>
<td>1-channel; HART capable; 2 outputs 4...20 mA source</td>
</tr>
<tr>
<td>KFD2-STC4-2</td>
<td>2-channel; HART capable; 2 outputs 4...20 mA source</td>
</tr>
<tr>
<td>KFD2-STV4-1-1</td>
<td>1-channel; HART capable; 1 output 1...5 V source</td>
</tr>
<tr>
<td>KFD2-STV4-2-1</td>
<td>2-channel; HART capable; 2 outputs 2...10 V source</td>
</tr>
<tr>
<td>KFD2-CR4-2</td>
<td>2-channel; HART capable; 2 outputs 4...20 mA source</td>
</tr>
<tr>
<td>KFD2-CR4-1.2O</td>
<td>1-channel; HART capable; 2 outputs 4...20 mA source</td>
</tr>
</tbody>
</table>

### Temperature Converter (24 V DC Supply Voltage)

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<th>Model</th>
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<tbody>
<tr>
<td>KFD2-UT2-1</td>
<td>1-channel; analog current output 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFD2-UT2-1-1</td>
<td>1-channel; voltage output 0/1 ... 5 V</td>
</tr>
<tr>
<td>KFD2-UT2-2</td>
<td>2-channel; 2 analog current outputs 0/4 mA ... 20 mA</td>
</tr>
<tr>
<td>KFD2-UT2-2-1</td>
<td>2-channel; 2 voltage outputs 0/1 ... 5 V</td>
</tr>
</tbody>
</table>
### Smart Current Driver (24 V DC Supply Voltage)

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<th>Model</th>
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<tbody>
<tr>
<td>KFD2-SCD2-1.LK</td>
<td>1-channel; HART capable; 4...20 mA current output</td>
</tr>
<tr>
<td>KFD2-SCD2-2.LK</td>
<td>2-channel; HART capable; 4...20 mA current output</td>
</tr>
</tbody>
</table>

### K-System Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPR-03</td>
<td>Universal power rail</td>
</tr>
<tr>
<td>KFD2-EB2</td>
<td>Power feed module, fault signal relay output</td>
</tr>
<tr>
<td>KFD2-EB2.R4A.B</td>
<td>Power feed module with bus terminal, fault signal relay output NO</td>
</tr>
</tbody>
</table>

### Z-SYSTEM

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z***</td>
<td>All Zener barriers of the Z-System</td>
</tr>
<tr>
<td>Z7**</td>
<td>Positive Polarity Shunt Zener Diode Barriers</td>
</tr>
<tr>
<td>Z8**</td>
<td>Positive Polarity Shunt Zener Diode Barriers</td>
</tr>
<tr>
<td>Z9**</td>
<td>A.C. Shunt Zener Diode Barriers</td>
</tr>
</tbody>
</table>

**MARINE CERTIFIED PRODUCTS BY PEPPERL+FUCHS**
# STANDARD INDUCTIVE SENSORS

## Cylindrical sensors M8x1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBB2-8GM30-E0</td>
<td>Operating distance 2 mm, housing M8x1, NPN NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB2-8GM30-E0-V1</td>
<td>Operating distance 2 mm, housing M8x1, NPN NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBB2-8GM30-E2</td>
<td>Operating distance 2 mm, housing M8x1, PNP NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB2-8GM30-E2-V1</td>
<td>Operating distance 2 mm, housing M8x1, PNP NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN3-8GM30-E0</td>
<td>Operating distance 3 mm, housing M8x1, NPN NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN3-8GM30-E0-V1</td>
<td>Operating distance 3 mm, housing M8x1, NPN NO output, non-flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN3-8GM30-E2</td>
<td>Operating distance 3 mm, housing M8x1, PNP NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN3-8GM30-E2-V1</td>
<td>Operating distance 3 mm, housing M8x1, PNP NO output, non-flush mountable, connector M12</td>
</tr>
</tbody>
</table>

## Cylindrical sensors M12x1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBB4-12GM50-E0</td>
<td>Operating distance 4 mm, housing M12x1, NPN NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB4-12GM50-E0-V1</td>
<td>Operating distance 4 mm, housing M12x1, NPN NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBB4-12GM50-E2</td>
<td>Operating distance 4 mm, housing M12x1, PNP NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB4-12GM50-E2-V1</td>
<td>Operating distance 4 mm, housing M12x1, PNP NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN8-12GM50-E0</td>
<td>Operating distance 8 mm, housing M12x1, NPN NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN8-12GM50-E0-V1</td>
<td>Operating distance 8 mm, housing M12x1, NPN NO output, non-flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN8-12GM50-E2</td>
<td>Operating distance 8 mm, housing M12x1, PNP NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN8-12GM50-E2-V1</td>
<td>Operating distance 8 mm, housing M12x1, PNP NO output, non-flush mountable, connector M12</td>
</tr>
</tbody>
</table>

## Cylindrical sensors M18x1

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBB8-18GM50-E0</td>
<td>Operating distance 8 mm, housing M18x1, NPN NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB8-18GM50-E0-V1</td>
<td>Operating distance 8 mm, housing M18x1, NPN NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBB8-18GM50-E2</td>
<td>Operating distance 8 mm, housing M18x1, PNP NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB8-18GM50-E2-V1</td>
<td>Operating distance 8 mm, housing M18x1, PNP NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN12-18GM50-E0</td>
<td>Operating distance 12 mm, housing M18x1, NPN NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN12-18GM50-E0-V1</td>
<td>Operating distance 12 mm, housing M18x1, NPN NO output, non-flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN12-18GM50-E2</td>
<td>Operating distance 12 mm, housing M18x1, PNP NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN12-18GM50-E2-V1</td>
<td>Operating distance 12 mm, housing M18x1, PNP NO output, non-flush mountable, connector M12</td>
</tr>
</tbody>
</table>

## Cylindrical sensors M30x1,5

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBB15-30GM50-E0</td>
<td>Operating distance 15 mm, housing M30x1, NPN NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB15-30GM50-E0-V1</td>
<td>Operating distance 15 mm, housing M30x1, NPN NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBB15-30GM50-E2</td>
<td>Operating distance 15 mm, housing M30x1, PNP NO output, flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBB15-30GM50-E2-V1</td>
<td>Operating distance 15 mm, housing M30x1, PNP NO output, flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN25-30GM50-E0</td>
<td>Operating distance 25 mm, housing M30x1, NPN NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN25-30GM50-E0-V1</td>
<td>Operating distance 25 mm, housing M30x1, NPN NO output, non-flush mountable, connector M12</td>
</tr>
<tr>
<td>NBN25-30GM50-E2</td>
<td>Operating distance 25 mm, housing M30x1, PNP NO output, non-flush mountable, 2 m cable</td>
</tr>
<tr>
<td>NBN25-30GM50-E2-V1</td>
<td>Operating distance 25 mm, housing M30x1, PNP NO output, non-flush mountable, connector M12</td>
</tr>
</tbody>
</table>

*Please ask for further product information or visit www.pepperl-fuchs.com*