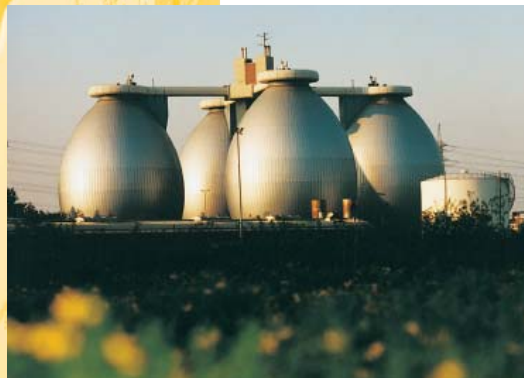
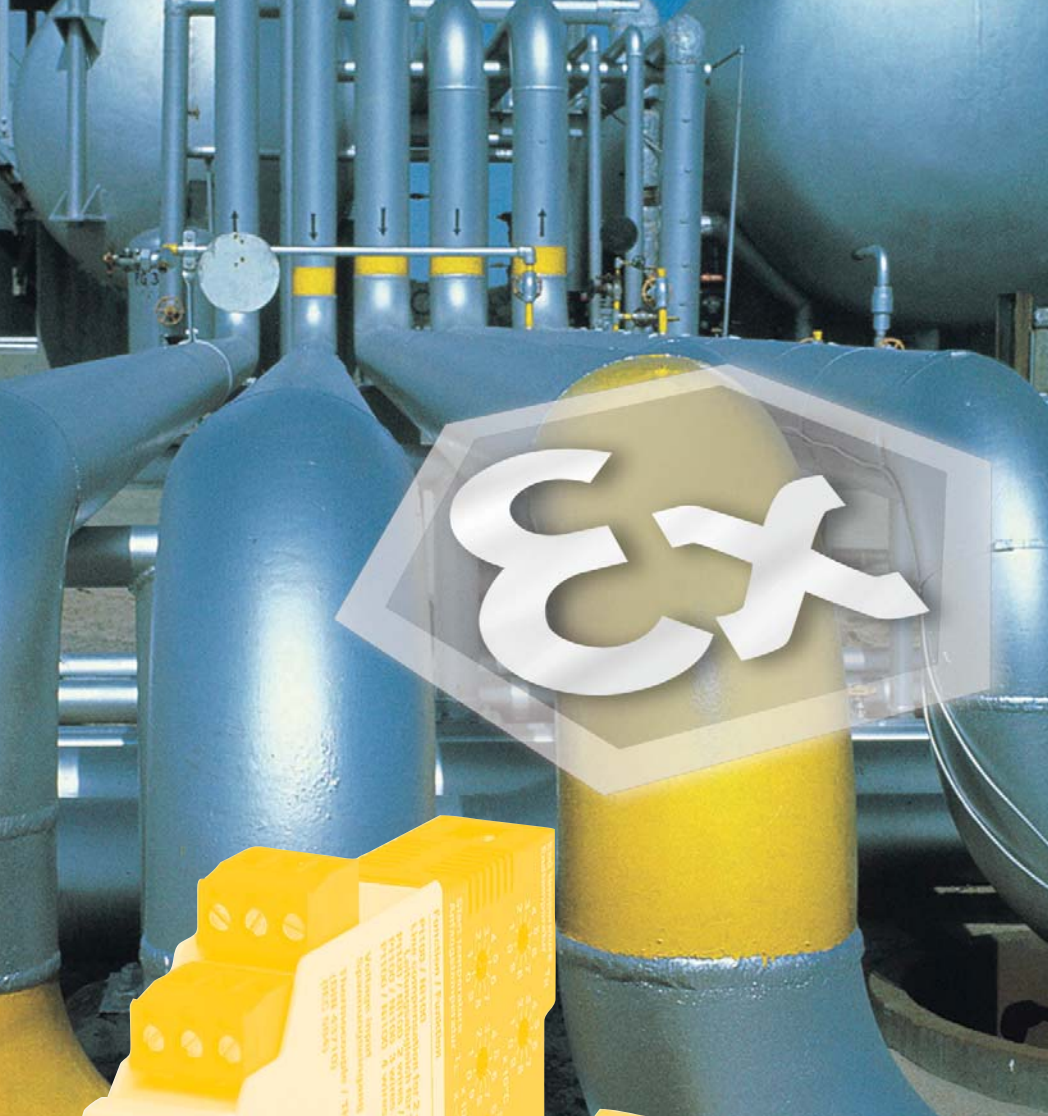


# TURCK

Industrial  
Automation

**INTERFACE  
TECHNOLOGY  
IN MODULAR  
HOUSINGS**

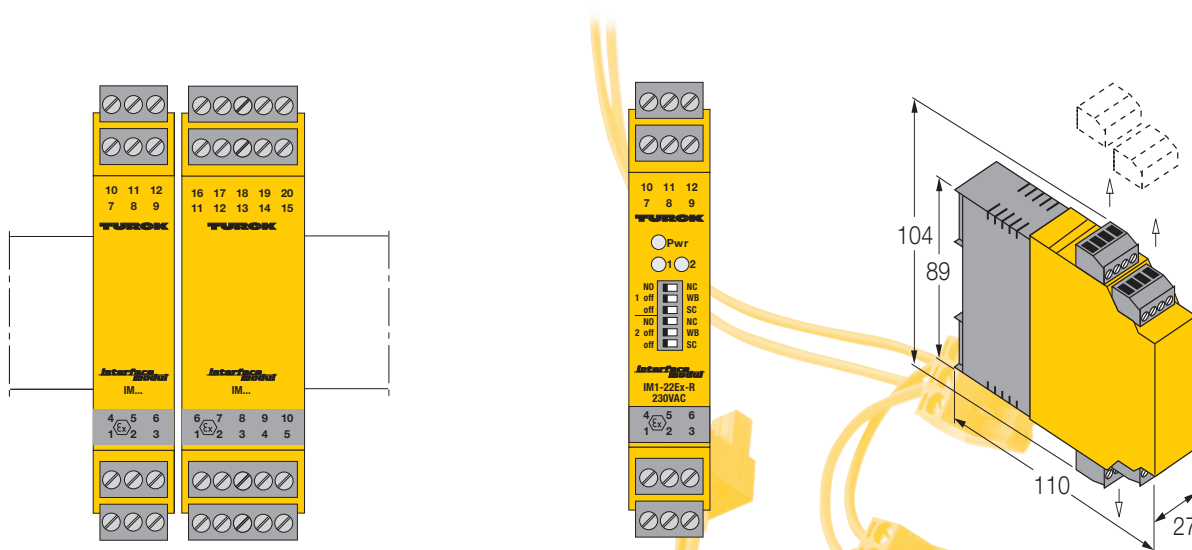
**INTERFACE-  
MODULE  
SERIES**



**interface  
modul**

## Interface technology in modular housings – series IM

### Functions and selection guide



#### The housing concept

Depending on the device's scope of functions, there are housings with a width of 18 or 27 mm, while they are 104 mm high.

All modules may be mounted directly next to each other and can be powered via the power bus.

#### Universal power supply

With a universal power supply ranging from 20 ... 250 VUC, or 20 ... 250 VAC/20 ... 125 VDC for the intrinsically safe versions, the new IM-modules may be connected to practically all industrial power networks. The universal power supply facilitates device selection, as well as device and spare parts inventory management.

#### Removable terminal blocks

Removable terminal blocks simplify installation and device replacements significantly. The terminals are coded, thus preventing interchange errors. Devices with standard functionality are also available with cage-clamp terminals. The type code must then be expanded with a "CC".

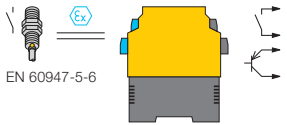
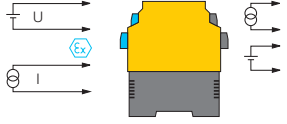
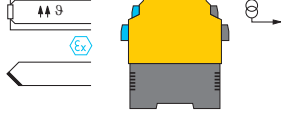
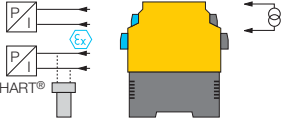
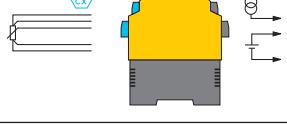
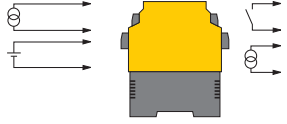
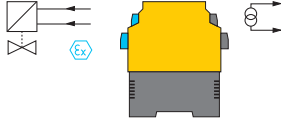
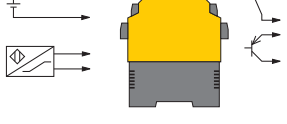
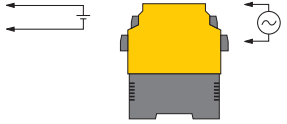
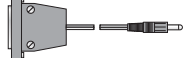
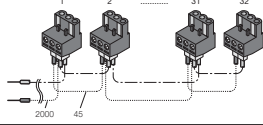
#### ATEX compliance

All interface devices of the IM series feature intrinsically safe input and output circuits and are approved according to the new framework directive 94/9/EC, regarding equipment and protective systems intended for use in potentially explosive atmospheres. They can thus be used as associated equipment.

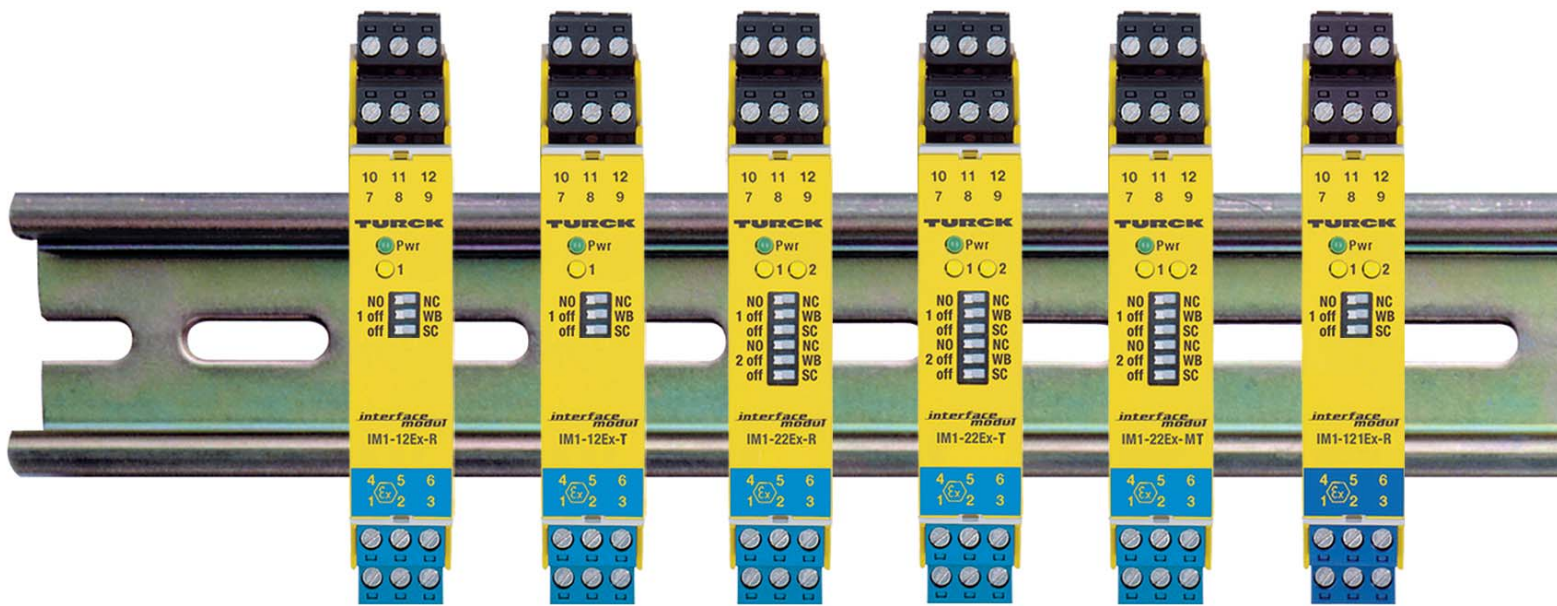
The blue terminals are designated for connection of intrinsically safe signals.

Further information on the ATEX directive is available via the Internet: <http://europa.eu.int/comm/enterprise/atex/index.htm>



| Device type                                                                                                                     | Page                                      | Connection Circuit                                                                                    | Function                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IM1-12Ex-R<br>IM1-12Ex-T<br>IM1-22Ex-R<br>IM1-22Ex-T<br>IM1-22Ex-MT<br>M1-121Ex-R<br>IM1-451Ex-R<br>IM1-451Ex-T<br>IM12-22Ex-R  | 4<br>4<br>4<br>4<br>4<br>4<br>5<br>5<br>5 |  <p>EN 60947-5-6</p> | <b>Isolating amplifiers</b><br>Processing of switching states of mechanical contacts and sensors according to EN 60947-5-6 (NAMUR).                                                                                                                                                                                                                                                                         |
| IM31-11-i<br>IM31-12-i<br>IM31-22-i<br>IM31-11Ex-i<br>IM31-12Ex-i<br>IM31-22Ex-i<br>IM31-22Ex-U                                 | 5<br>5<br>5<br>5<br>6<br>6<br>6           |                      | <b>Analogue data transmitters/ intrinsically safe input isolators</b><br>Galvanic isolation and/or conversion of analogue current and voltage signals. There are devices with intrinsically safe input and output circuits.                                                                                                                                                                                 |
| IM33-11Ex-Hi/24VDC<br>IM33-12Ex-Hi/24VDC<br>IM33-22Ex-Hi/24VDC<br>IM33-11Ex-Hi<br>IM33-12Ex-Hi<br>IM33-22Ex-Hi<br>IM33-FSD-Ex/L | 6<br>6<br>6<br>7<br>7<br>7<br>7           |  <p>HART®</p>        | <b>Isolating transducers</b><br>Supply and transmission of current signals of 2-wire transmitters located in explosion hazardous areas. HART® devices enable bi-directional communication. This range incorporates devices with and without auxiliary power and active or passive outputs. Series -FSD includes smoke and fire detectors.                                                                   |
| IM34-11Ex-i<br>IM34-11Ex-Ci<br>IM34-12Ex-Ri<br>IM34-12Ex-CRi<br>IM34-14Ex-CDRi                                                  | 7<br>7<br>7<br>7<br>8                     |                      | <b>Pt100 measuring amplifiers</b><br>Linear conversion of temperature values into standard current signals.<br><b>Thermoelement measuring amplifiers</b><br>Linear conversion of temperature values, which are detected by a thermo-element, into standard current signals. All customary thermoelements or mV-signals may be connected.<br>Types -Ci, -CRi = programmable via PC using software PACTware™. |
| IM35-11Ex-Hi/24VDC<br>IM35-11Ex-Hi<br>IM35-22Ex-Hi/24VDC<br>IM35-22Ex-Hi                                                        | 8<br>8<br>8<br>8                          |  <p>HART®</p>       | <b>Analogue data transmitters/ intrinsically safe output isolators</b><br>Galvanic isolation and transfer of analogue current signals into the explosion hazardous area. The family comprises a selection of devices with intrinsically safe output circuits. HART® devices enable bi-directional communication.                                                                                            |
| IM36-11Ex-i/24VDC<br>IM36-11Ex-U/24VDC<br>IM36-22Ex-i<br>IM36-22Ex-U                                                            | 8<br>9<br>9<br>9                          |                    | <b>Potentiometer measuring amplifiers</b><br>Conversion of the variable resistance values of a potentiometer into standard current and voltage signals. The input circuit is intrinsically safe, so that the potentiometer may be mounted in the explosion hazardous area.                                                                                                                                  |
| IM43-13-R<br>IM43-13-SR<br>IM43-14-CRi<br>IM43-14-Ri                                                                            | 9<br>9<br>9<br>9                          |                    | <b>Limit value monitors</b><br>Monitoring of standard current and voltage signals relative to pre-set limit values. This series includes devices with three limit values and versions with current output. Types -SR, -SRi feature a manual teach function, whereas types -R and -Ri are adjustable via a coded rotary switch.                                                                              |
| IM72-11Ex/L<br>IM72-22Ex/L                                                                                                      | 10<br>10                                  |                    | <b>Valve control modules</b><br>Intrinsically safe supply of magnetic valves, pilot indicators, transmitters etc.                                                                                                                                                                                                                                                                                           |
| IM73-12-R                                                                                                                       | 10                                        |                    | <b>Coupling devices</b><br>Galvanically isolated transmission of binary switching states. These devices function as a reliable interface between different potentials.                                                                                                                                                                                                                                      |
| IM82-2414<br>IM82-2450                                                                                                          | 10<br>10                                  |                    | <b>Power supplies</b><br>Power supply with galvanic isolation used to power low power consumers, particularly suited for powering the switching and monitoring devices of TURCK's <i>interfacemodul</i> , <i>multimodul</i> und <i>multisafe</i> ® series.                                                                                                                                                  |
| IM-PROG                                                                                                                         | 7                                         |                    | <b>Programming adapter</b><br>For programming the IM-modules via a PC.                                                                                                                                                                                                                                                                                                                                      |
| PB- xx/03                                                                                                                       | 6                                         |                    | <b>Power-bus for power distribution</b><br>Distribution of the power supply to several modules. "xx" in the type code stands for the number of modules, "03" for 3-pole terminals.                                                                                                                                                                                                                          |
| IM-CC                                                                                                                           | 8                                         |                    | <b>IM-CC</b><br>Removable cage-clamp terminals (3-pole) for IM modules.                                                                                                                                                                                                                                                                                                                                     |



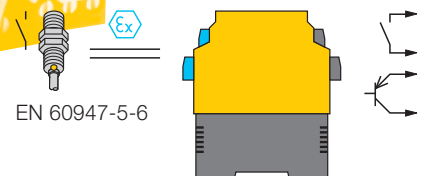


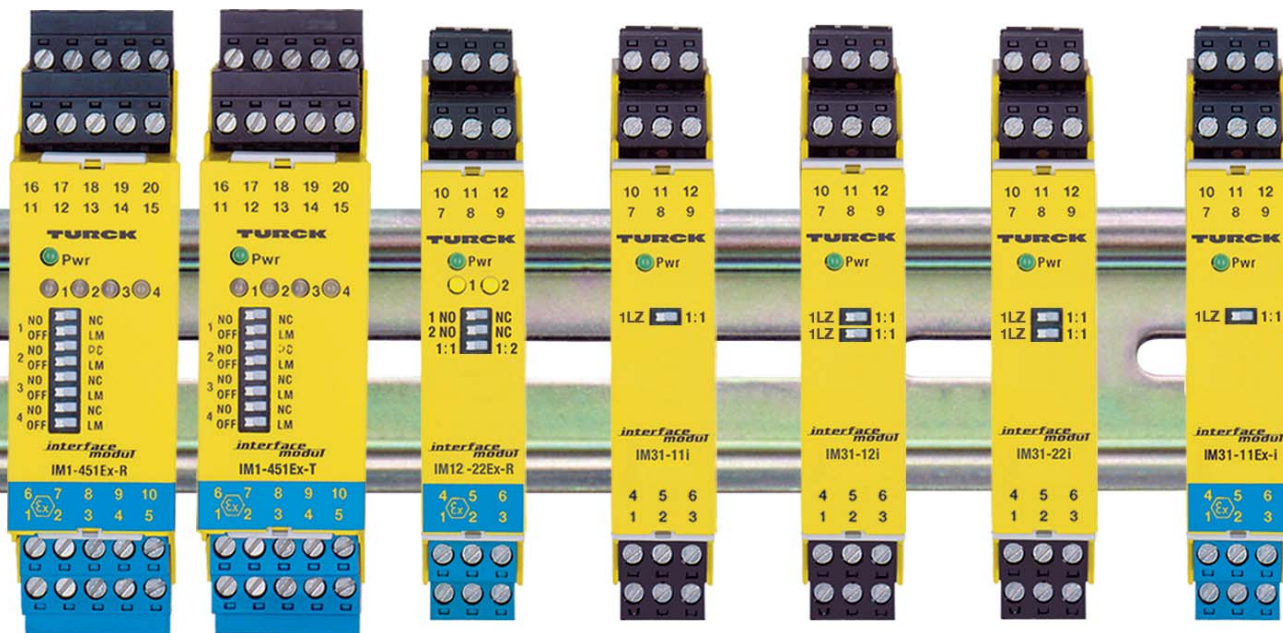
| Type             | IM1-12Ex-R                    | IM1-12Ex-T                              | IM1-22Ex-R                    | IM1-22Ex-T                              | IM1-22Ex-MT                   | IM1-121Ex-R                              |  |
|------------------|-------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|-------------------------------|------------------------------------------|--|
|                  | [ EEx ia ]                    | [ EEx ia ]                              | [ EEx ia ]                    | [ EEx ia ]                              | [ EEx ia ]                    | [ EEx ia ]                               |  |
| Function         | Isolating switching amplifier | Isolating switching amplifier           | Isolating switching amplifier | Isolating switching amplifier           | Isolating switching amplifier | Isolating switching amplifier            |  |
| Voltage supply   | 20...250 VAC<br>20...125 VDC  | 20...250 VAC<br>20...125 VDC            | 20...250 VAC<br>20...125 VDC  | 20...250 VAC<br>20...125 VDC            | 20...250 VAC<br>20...125 VDC  | 20...250 VAC<br>20...125 VDC             |  |
| Inputs           | 1 NAMUR sensor or contact     | 1 NAMUR sensor or contact               | 2 NAMUR sensors or contacts   | 2 NAMUR sensors or contacts             | 2 NAMUR sensors or contacts   | 1 NAMUR sensor or contact                |  |
| Outputs          | 2 relays (N.O.)               | 2 transistors<br>≤ 30 V, 50 mA, ≤ 3 KHz | 2 relays (N.O.)               | 2 transistors<br>≤ 30 V, 50 mA, ≤ 3 KHz | 2 MOSFET<br>≤ 250 VAC         | 2 relays (N.O.), incl.<br>1 alarm output |  |
| Approvals        | ATEX, FM/CSA, IECEx, GOST     | ATEX, FM/CSA, IECEx, GOST               | ATEX, FM/CSA, IECEx, GOST     | ATEX, FM/CSA, IECEx, GOST               | ATEX, FM/CSA, IECEx, GOST     | ATEX, FM/CSA, IECEx, GOST                |  |
| Special features | SIL 2                         | SIL 2                                   | SIL 2                         | SIL 2                                   | SIL 2                         | SIL 2                                    |  |

### Isolating amplifiers

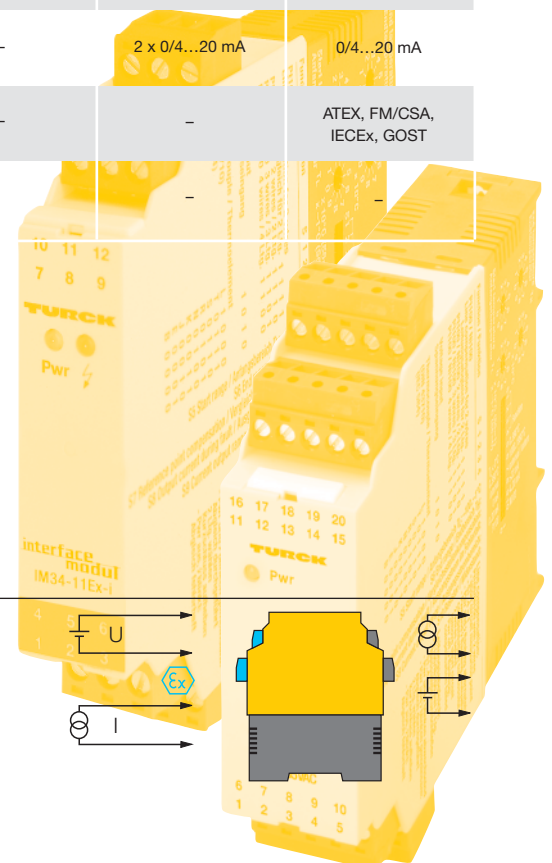
Evaluation and processing of switching states of mechanical contacts and sensors according to EN 60947-5-6 (NAMUR).

EN 60947-5-6





|  | IM1-451Ex-R                           | IM1-451Ex-T                        | IM12-22Ex-R                   | IM31-11-i                 | IM31-12-i                      | IM31-22-i                         | IM31-11Ex-i                  |
|--|---------------------------------------|------------------------------------|-------------------------------|---------------------------|--------------------------------|-----------------------------------|------------------------------|
|  | [EEEx ia]                             | [EEEx ia]                          | [EEEx ia]                     |                           |                                |                                   | [EEEx ia]                    |
|  | Isolating switching amplifier         | Isolating switching amplifier      | Isolating switching amplifier | Analogue data transmitter | Analogue data transmitter      | Analogue data transmitter         | Analogue data transmitter    |
|  | 20...250 VAC<br>20...125 VDC          | 20...250 VAC<br>20...125 VDC       | 20...250 VAC<br>20...125 VDC  | 20...250 VDC              | 20...250 VDC                   | 20...250 VDC                      | 20...250 VAC<br>20...125 VDC |
|  | 4 NAMUR sensors or contacts           | 4 NAMUR sensors or contacts        | 2 NAMUR sensors or contacts   | 0/2...10 V<br>0/4...20 mA | 0/4...20 mA<br>2 x 0/4...20 mA | 2 x 0/2...10 V<br>2 x 0/4...20 mA | 0/2...10 V<br>0/4...20 mA    |
|  | 5 relays (N.O.), incl. 1 alarm output | 5 transistors incl. 1 alarm output | 2 relays (N.O.)               | 0/4...20 mA               | -                              | 2 x 0/4...20 mA                   | 0/4...20 mA                  |
|  | ATEX, FM/CSA, IECEx, GOST             | ATEX, FM/CSA, IECEx, GOST          | ATEX, FM/CSA, IECEx, GOST     | -                         | -                              | -                                 | ATEX, FM/CSA, IECEx, GOST    |
|  | -                                     | -                                  | -                             | -                         | -                              | -                                 | -                            |

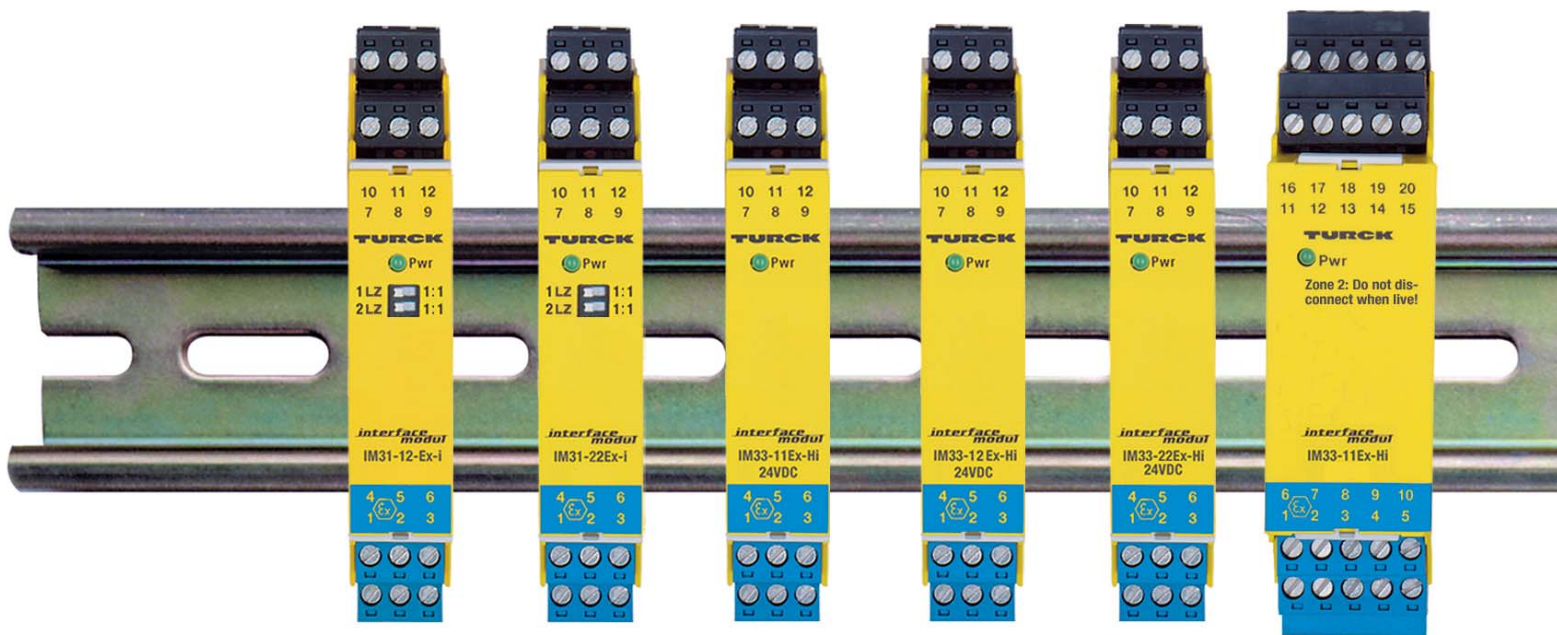


## Analogue data transmitters/ intrinsically safe input isolators

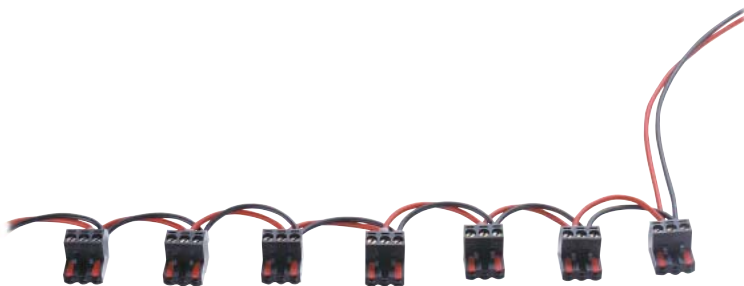
Galvanic isolation and/or conversion of analogue current and voltage signals. There are devices with intrinsically safe input and output circuits.







| Type             | IM31-12Ex-i                  | IM31-22Ex-U<br>IM31-22Ex-i        | IM33-11Ex-Hi/24VDC                        | IM33-12Ex-Hi/24VDC                        | IM33-22Ex-Hi/24VDC                        | IM33-11Ex-Hi                                                    |
|------------------|------------------------------|-----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------------|
|                  | [ EEx ia ]                   | [ EEx ia ]                        | [ EEx ia ]                                | [ EEx ia ]                                | [ EEx ia ]                                | [ EEx ia ]                                                      |
| Function         | Analogue data transmitter    | Analogue data transmitter         | HART® isolating transducer                | HART® isolating transducer                | HART® isolating transducer                | HART® isolating transducer                                      |
| Voltage supply   | 20...250 VAC<br>20...125 VDC | 20...250 VAC<br>20...125 VDC      | 24 VDC                                    | 24 VDC                                    | 24 VDC                                    | 20...250 VAC<br>20...125 VDC                                    |
| Inputs           | 0/2...10 V<br>0/4...20 mA    | 2 x 0/2...10 V<br>2 x 0/4...20 mA | 0/4...20 mA                               | 1 x 0/4...20 mA                           | 2 x 0/4...20 mA                           | 1 x 0/4...20 mA                                                 |
| Outputs          | 2 x 0/4...20 mA              | 2 x 0/4...20 mA<br>2 x 0/2...10V  | 0/4...20 mA                               | 2 x 0/4...20 mA                           | 2 x 0/4...20 mA                           | 1 x 0/4...20 mA                                                 |
| Approvals        | ATEX, FM/CSA,<br>IECEX, GOST | ATEX, FM/CSA,<br>IECEX, GOST      | ATEX, FM/CSA,<br>IECEX, GOST              | ATEX, FM/CSA,<br>IECEX, GOST              | ATEX, FM/CSA,<br>IECEX, GOST              | ATEX, FM/CSA,<br>IECEX, GOST                                    |
| Special features | Signal multiplier            | –                                 | HART®-<br>transmission possible/<br>SIL 2 | HART®-<br>transmission possible/<br>SIL 2 | HART®-<br>transmission possible/<br>SIL 2 | HART®-<br>transmission possible/<br>mounting in Zone 2 possible |

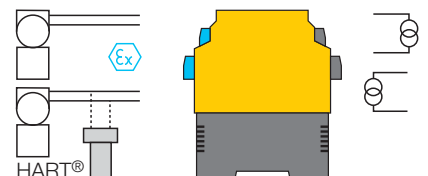


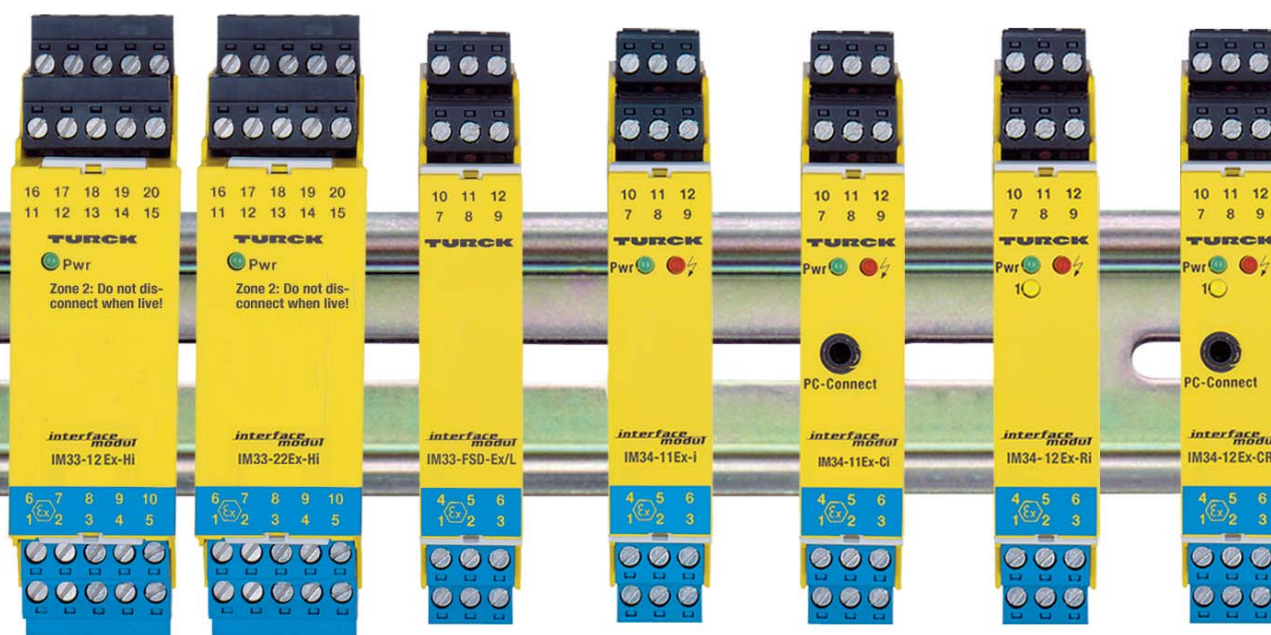
#### Power bus for energy distribution PB-xx/03

For distribution of the voltage supply to several modules. The "xx" in the type designation stands for number of modules, whereas the "03" identifies 3-pole terminals.

#### Isolating transducers

These devices are suited for the supply and transmission of current signals of 2-wire transmitters located in explosion hazardous areas. HART® devices enable bi-directional communication. This range incorporates devices with and without auxiliary power and active or passive outputs. Series -FSD includes smoke and fire detectors.





| IM33-12Ex-Hi | IM33-22Ex-Hi | IM33-FSD-Ex/L | IM34-11Ex-i | IM34-11Ex-Ci | IM34-12Ex-Ri | IM34-12Ex-CRi |
|--------------|--------------|---------------|-------------|--------------|--------------|---------------|
| [ EEx ia ]   | [ EEx ia ]   | [ EEx ia ]    | [ EEx ia ]  | [ EEx ia ]   | [ EEx ia ]   | [ EEx ia ]    |

|                                                             |                                                             |                                          |                                         |                                         |                                         |                                         |
|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| HART® isolating transducer                                  | HART® isolating transducer                                  | Isolating transducer                     | Temperature measuring amplifier         | Temperature measuring amplifier         | Temperature measuring amplifier         | Temperature measuring amplifier         |
| 20...250 VAC<br>20...125 VDC                                | 20...250 VAC<br>20...125 VDC                                | without auxiliary energy                 | 20...250 VAC<br>20...125 VDC            | 20...250 VAC<br>20...125 VDC            | 20...250 VAC<br>20...125 VDC            | 20...250 VAC<br>20...125 VDC            |
| 1 x 0/4...20 mA                                             | 2 x 0/4...20 mA                                             | 2 x 0...20 mA                            | Ni/Pt100 or thermo-elements or mV-input | Ni/Pt100 or thermo-elements or mV-input | Ni/Pt100 or thermo-elements or mV-input | Ni/Pt100 or thermo-elements or mV-input |
| 2 x 0/4...20 mA                                             | 2 x 0/4...20 mA                                             | 2 x 0...20 mA                            | 1 x 0/4...20 mA                         | 1 x 0/4...20 mA                         | 1 x 0/4...20 mA<br>1 relay (N.O.)       | 1 x 0/4...20 mA<br>1 relay (N.O.)       |
| ATEX, FM/CSA, IECEx, GOST                                   | ATEX, FM/CSA, IECEx, GOST                                   | ATEX, FM/CSA, IECEx, GOST                | ATEX, FM/CSA, IECEx, GOST               | ATEX, FM/CSA, IECEx, GOST               | ATEX, FM/CSA, IECEx, GOST               | ATEX, FM/CSA, IECEx, GOST               |
| HART®-transmission possible/<br>mounting in Zone 2 possible | HART®-transmission possible/<br>mounting in Zone 2 possible | Transducer for fire and smoke indicators | –                                       | programmable via PC (FDT/DTM)           | –                                       | programmable via PC (FDT/DTM)           |



**Programming adapter IM-PROG**  
For programming of IM modules via PC.

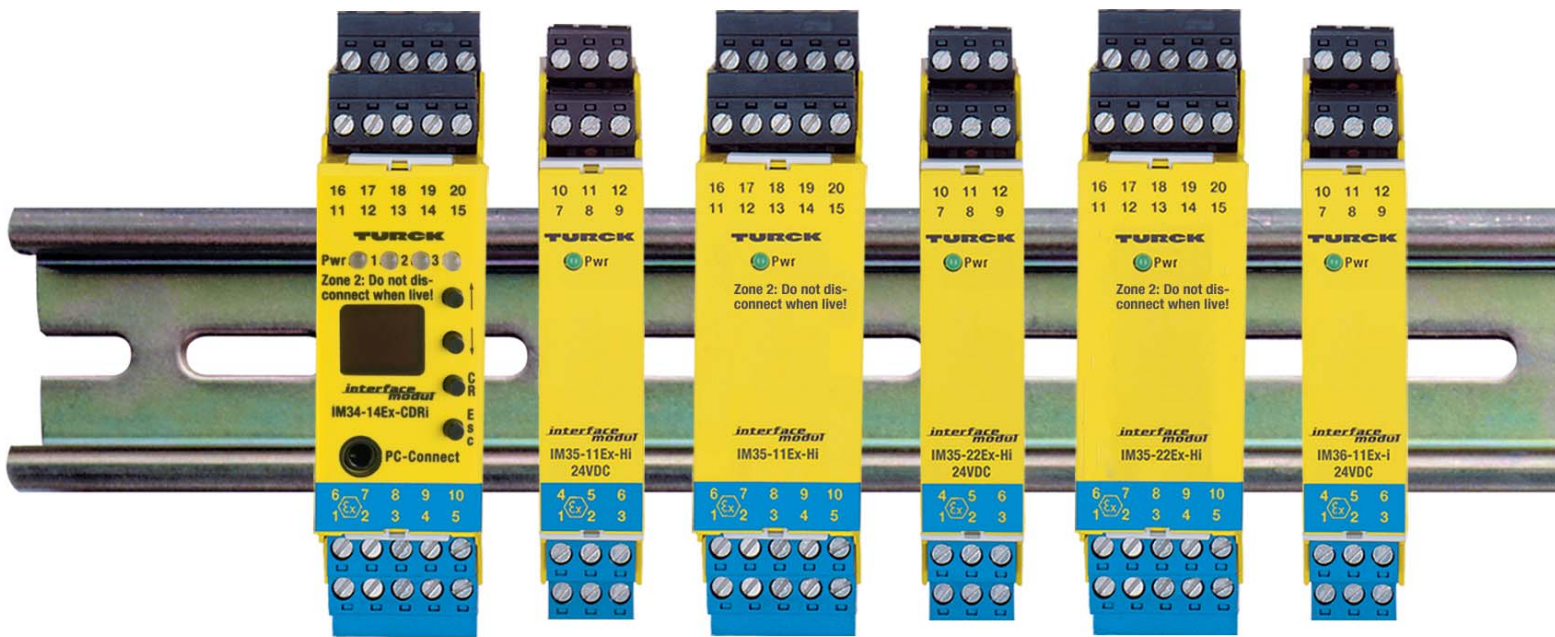
## Temperature measuring amplifiers

Linear conversion of temperature values into standard current signals.

## Thermo-element measuring amplifiers

Linear conversion of temperature values, which are detected by a thermo-element, into standard current signals. All customary thermoelements or mV signals may be connected. Types -Ci, -CRi = programmable via PC using software PACTware™.





| Type             | IM34-14Ex-CDRi                                                     | IM35-11Ex-Hi/24VDC                 | IM35-11Ex-Hi                       | IM35-22Ex-Hi/24VDC                 | IM35-22Ex-Hi                       | IM36-11Ex-i/24VDC         |  |
|------------------|--------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------|--|
|                  | [ EEx ia ]                                                         | [ EEx ia ]                         | [ EEx ia ]                         | [ EEx ia ]                         | [ EEx ia ]                         | [ EEx ia ]                |  |
| Function         | Temperature measuring amplifier                                    | HART® Analogue data transmitter    | HART® Analogue data transmitter    | HART® Analogue data transmitter    | HART® Analogue data transmitter    | Potentiometer amplifier   |  |
| Voltage supply   | 20...250 VAC<br>20...125 VDC                                       | 24 VDC                             | 20...250 VAC<br>20...125 VDC       | 24 VDC                             | 20...250 VAC<br>20...125 VDC       | 24 VDC                    |  |
| Inputs           | Ni/Pt100 or thermo-elements or mV-input                            | 0/4...20 mA                        | 0/4...20 mA                        | 2 x 0/4...20 mA                    | 2 x 0/4...20 mA                    | 800 Ω... 20 kΩ            |  |
| Outputs          | 3 relays (N.O.)<br>1 x 0/4...20mA                                  | 0/4...20 mA                        | 0/4...20 mA                        | 2 x 0/4...20 mA                    | 2 x 0/4...20 mA                    | 0...20 mA                 |  |
| Approvals        | ATEX, FM/CSA, IECEx, GOST                                          | ATEX, FM/CSA, IECEx, GOST          | ATEX, FM/CSA, IECEx, GOST          | ATEX, FM/CSA, IECEx, GOST          | ATEX, FM/CSA, IECEx, GOST          | ATEX, FM/CSA, IECEx, GOST |  |
| Special features | Display programmable via PC (FDT/DTM)/ mounting in Zone 2 possible | HART®-transmission possible/ SIL 2 | HART®/ mounting in Zone 2 possible | HART®-transmission possible/ SIL 2 | HART®/ mounting in Zone 2 possible | -                         |  |

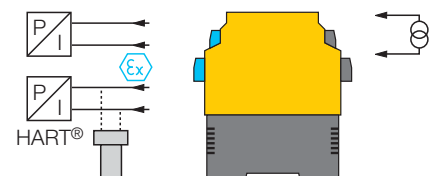


#### IM-CC

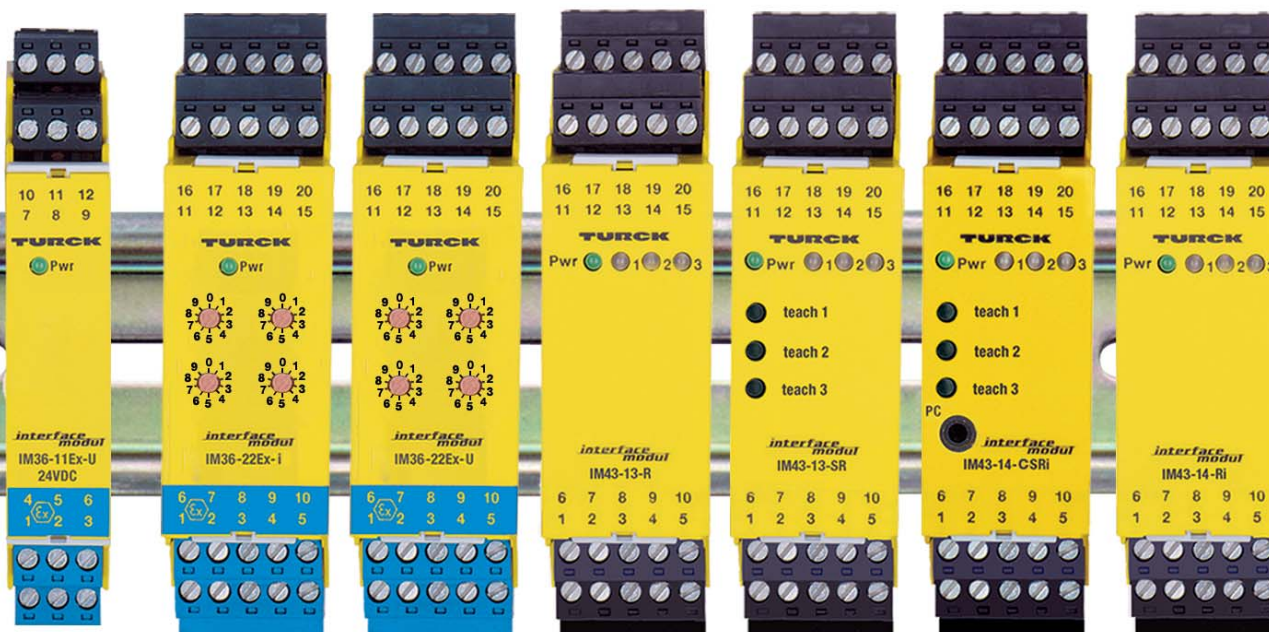
Removable cage-clamp terminals (3-pole) for IM modules

### Analogue data transmitters/ intrinsically safe output isolators

Galvanic isolation and transfer of analogue current signals into the explosion hazardous area. The family comprises a selection of devices with intrinsically safe output circuits. HART® devices enable bi-directional communication.



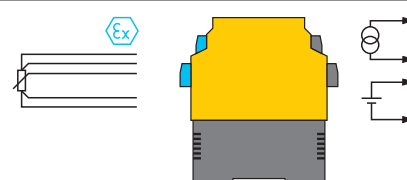




|                              | IM36-11Ex-U/24VDC            | IM36-22Ex-i                  | IM36-22Ex-U                  | IM43-13-R                                   | IM43-13-SR                                  | IM43-14-CSRi                                 | IM43-14-Ri                                  |
|------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|
|                              | [ EEx ia ]                   | [ EEx ia ]                   | [ EEx ia ]                   |                                             |                                             |                                              |                                             |
| Potentiometer amplifier      | Potentiometer amplifier      | Potentiometer amplifier      | Potentiometer amplifier      | Limit value monitor                         | Limit value monitor                         | Limit value monitor                          | Limit value monitor                         |
| 24 VDC                       | 20...250 VAC<br>20...125 VDC | 20...250 VAC<br>20...125 VDC | 20...250 VAC<br>20...125 VDC | 20...250 VUC                                | 20...250 VUC                                | 20...250 VUC                                 | 20...250 VUC                                |
| 800 Ω...20 kΩ                | 2 x 800 Ω...20 kΩ            | 2 x 800 Ω...20 kΩ            | 2 x 800 Ω...20 kΩ            | 0/4...20 mA or<br>0/2...10 V or transmitter | 0/4...20 mA or<br>0/2...10 V or transmitter | 0/4...20 mA or<br>0/2...10 V or transmitter  | 0/4...20 mA or<br>0/2...10 V or transmitter |
| 0...10 V<br>0...20 mA        | 2 x 0...20 mA                | 2 x 0...10 V                 | 3 relays (N.O.)              | 3 relays (N.O.)                             | 3 relays (N.O.)<br>1 x 0/4...20 mA          | 3 relays (N.O.)<br>1 x 0/4...20 mA           | 3 relays (N.O.)<br>1 x 0/4...20 mA          |
| ATEX, FM/CSA,<br>IECEx, GOST | ATEX, FM/CSA,<br>IECEx, GOST | ATEX, FM/CSA,<br>IECEx, GOST | -                            | -                                           | -                                           | -                                            | -                                           |
| -                            | -                            | -                            | -                            | -                                           | manual teach<br>function                    | manual teach function<br>programmable via PC | -                                           |

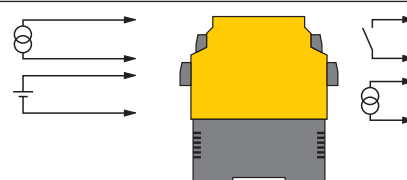
## Potentiometer amplifiers

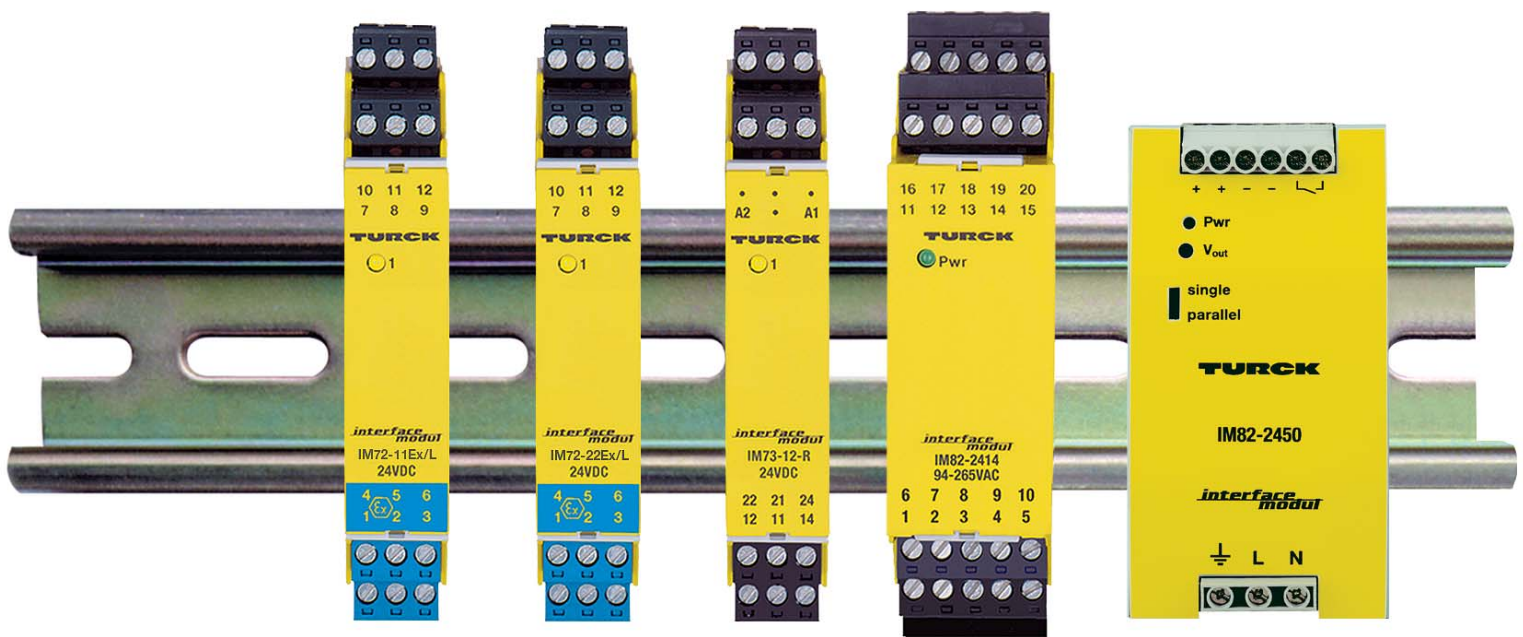
Conversion of the variable resistance values of a potentiometer into standard current and voltage signals. The input circuit is intrinsically safe, so that the potentiometer may be mounted in the explosion hazardous area.



## Limit value monitors

Monitoring of standard current and voltage signals relative to pre-set limit values. This series includes devices with three limit values and versions with current output. Types -SR and -SRi feature a manual teach function, whereas types -R and -Ri are adjustable via a coded rotary switch.





| Type             | IM72-11Ex/L                  | IM72-22Ex/L                  | IM73-12-R                | IM82-2414    | IM82-2450                                      |
|------------------|------------------------------|------------------------------|--------------------------|--------------|------------------------------------------------|
|                  | [ EEx ia ]                   | [ EEx ia ]                   |                          |              |                                                |
| Function         | Valve control module         | Valve control module         | Relay coupler            | Power supply | Power supply                                   |
| Voltage supply   | without power supply         | without power supply         | without auxiliary energy | 94...265 VAC | 25...132 VAC<br>176...265 VAC<br>210...375 VDC |
| Inputs           | 19...30 V                    | 19...30 V                    | 24 VDC<br>230 VAC        |              |                                                |
| Outputs          | 24 V / 45 mA<br>15 V / 45 mA | 24 V / 45 mA<br>15 V / 45 mA | 2 relays (change-over)   | 24 V/1,4 A   | 24 V/5 A                                       |
| Approvals        | ATEX, FM/CSA, IECEx, GOST    | ATEX, FM/CSA, IECEx, GOST    | –                        | UL           | –                                              |
| Special features | SIL 3<br>Loop-powered        | SIL 3<br>Loop-powered        | SIL 3                    | –            | –                                              |

### Valve control modules

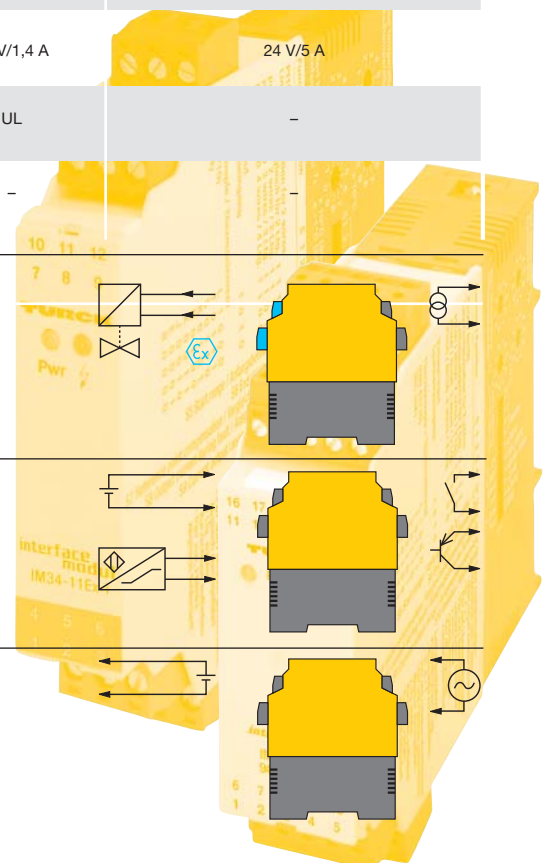
Intrinsically safe supply of magnetic valves, pilot indicators, transmitters etc.

### Coupling devices

Galvanically isolated transmission of binary switching states. These devices function as a reliable interface between different potentials.

### Power supplies

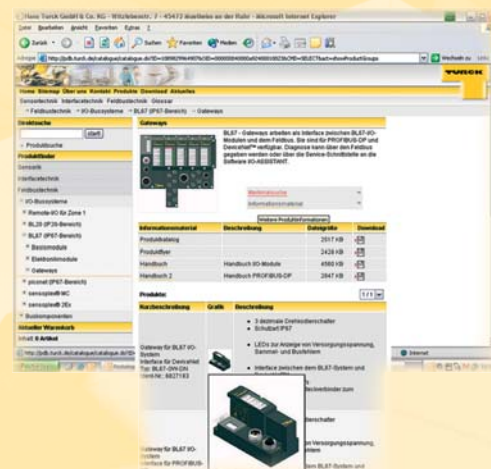
Power supply with galvanic isolation used to power low power consumers, particularly suited for powering the switching and monitoring devices of TURCK's *interfacemodul*, *multimodul* and *multisafe®* series.



Fast shipment and a comprehensive e-support system perfectly complement the extensive TURCK programme.

With the product database, available on [www.turck.com](http://www.turck.com), TURCK offers a fast way to problem solving around the clock, seven days a week, at any place in this world and in six different languages.

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