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16-channel analog input module with spring-cage connection and redundant voltage supply. Suitable for Yokogawa AAI141 and AAI143 cards. Connection option for HART multiplexers.



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------|
| Weight per Piece (excluding packing) | 169.960 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

Technical data

Note

| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|
|-------------------------|---|

Dimensions

| Width | 163 mm | | | |
|--------|--------|--|--|--|
| Height | 126 mm | | | |
| Depth | 65 mm | | | |

Ambient conditions

| Ambient temperature (operation) | -20 °C 50 °C |
|---|--------------|
| Ambient temperature (storage/transport) | -20 °C 70 °C |

General

| Note | Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display. |
|------------------------------|---|
| Max. perm. operating voltage | 24 V DC ±10 % |

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Technical data

General

| Max. permissible current (all branches) | 2 A (Redundant (P1+,P2+)) | | | | | |
|---|---------------------------|--|--|--|--|--|
| Mounting position | any | | | | | |
| Standards/regulations | DIN EN 50178 | | | | | |
| Rated surge voltage | 0.5 kV | | | | | |
| Degree of pollution | 2 | | | | | |
| Overvoltage category | Ш | | | | | |

Connection data for connection 1

| Connection name | Field level | | | | |
|----------------------------------|---|--|--|--|--|
| Connection method | Spring-cage connection | | | | |
| Conductor cross section solid | 0.2 mm ² 2.5 mm ² | | | | |
| Conductor cross section flexible | 0.2 mm² 1.5 mm² | | | | |
| Conductor cross section AWG | 24 14 | | | | |

Connection data for connection 2

| Connection name | Controller level | | | | |
|-------------------------|------------------------|--|--|--|--|
| Connection method | Yokogawa KS-compatible | | | | |
| Torque | 0.5 Nm | | | | |
| Number of connections 2 | | | | | |
| Number of positions | 40 | | | | |

Connection data for connection 3

| Connection method | HART connector |
|---------------------|----------------|
| Number of positions | 26 |

Supported controller

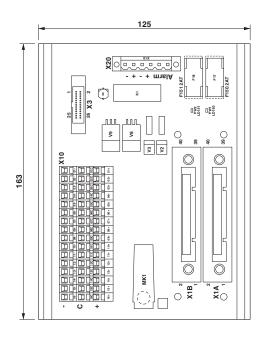
| Controller | YOKOGAWA CS3000 CentumVP | | | | |
|----------------------------|--------------------------|--|--|--|--|
| - suitable I/O card AAI141 | | | | | |
| AAI143 | | | | | |
| Controller | YOKOGAWA STARDOM | | | | |
| - suitable I/O card | NFAI141 | | | | |
| | NFAI143 | | | | |

Standards and Regulations

| Standards/regulations | DIN EN 50178 | | | |
|-----------------------|--------------|--|--|--|
| Degree of pollution | 2 | | | |
| Overvoltage category | Ш | | | |

Drawings





Dimensional drawing

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Circuit diagram

| | | | | | ls1 1 | | | | | |
|-------|----------------------|--|-----------|-------------|------------|------------|----------------------|------------------|-------------|------------|
| Field | X10 | | | | + | | _X3 | X1B | X1A YO | Ch. |
| | 10 0 | | | | + | | | 039 | + ⊢⊖ 39 | IN 1B |
| 1 | 1+ 0 | | 1 | | ¦└── | | —O 6 | i | i | i |
| | 1- O | | | 1 | | + | | 40 | +⊖ 40 I | IN 1A |
| i | 20 0 | | | | | | | | 0 37 | IN 28 |
| 2 | 2+ 0 | └ ── ↓ | 1 | | Ľ | | -0 7 | 37 | | |
| | 2- 0 | 1 | | + | 1 | | | -038 | FO 38 | IN 2A |
| + | + 3C () | | | | + | | | | ↓ L⊖ 35 | ↓ IN 3B |
| 3 | 3+ 0 | | | | L | i | | 1 | 1 | |
| - | 3- 0 | | | | | | | | LO 36 | IN 3A |
| | | - | | | + | ¦- | | | T — — - | т — — |
| 4 | 4C O | | | | | | _O 9 | 33 | ⊢O 33 I | IN 4B |
| 4 | 4+ 0 | <u>.</u> | | | | i | _0 • | | +O 34 | IN 44 |
| 1 | L | | | | | _ | | L | ļ | ļ |
| 1 | 50 0 | 1 | | | ¦ 🛉 🗌 | | | 0 1 0 31 | 0 31 | IN 5B |
| 5 | 5+ O | • | | | · | | O 10 | 1 | l – | |
| | 5- 0 | | | İ | | | | | 1 O 32 | IN 5A |
| | 6C O | | | | | | | -0_29 | -0 29 | IN 6B |
| 6 | 6+ O | 1 | | | ¦ | | -O 11 | i i | 1 | |
| | 6- O | <u>; </u> | | + | | + | | -O_30 | 4⊖ 30 I | IN 6A |
| | 70 0 | +- | | | | | | | 0 27 | IN 78 |
| 7 | 7+ 0 | | | | | _ | -O 12 | 27 | | |
| | 7- 0 | 1 | | + | | | | -0_28 | FO 28 | IN 7A |
| | ⊢ – – – – ∣ 8C O— | I | | | + | | | | ↓ L⊖ 25 | 1 |
| 8 | 8+ 0 | | | | Ľ | i | O 13 | L_O | 0.00 | IN 8B |
| | 8- 0 | | | ↓ | | | | 0 | 26 | IN 8A |
| | r | ¦ | | | + + | ¦- | | | ; | + |
| | 90 0 | | | | 1 | | | -O_23 | ⊢O 23 | IN 9B |
| 9 | 9+ O | ! | | | | i | O 16 | | i +⊖ 24 | |
| İ | L | | | | | !_ | | 24 | ! | <u> </u> |
| | 100 0 | | | | <u> </u> | | | 021 | O 21 | IN 10 |
| 10 | 10+ 0 | · • | | | · | | -O 17 | | | |
| | 10- 〇 | | | İ | 1 | i | | 22 | 0 22 | IN 10 |
| | 110 0 | | | | • • | | | 0 | ⊢O 19 | IN 11 |
| 11 | 11+ 0 | 1 | 1 | | ¦ | + | O 18 | 13 | i | i |
| | 11- 0 | | | + | | + | | 20 | LO 20 | IN 11. |
| i | 120 0 | | | | <u></u> | <u> </u> - | | -0_17 | 0 17 | IN 12 |
| 12 | 12+ 0 | └── ∳ | | | | | O 19 | 17 | 1 | |
| | 12- 0 | 1 | | ├ ── | 1 | | | -0_18 | FO 18 | IN 12 |
| | + | ! - - | · | | + | | | | + | 4 — — |
| 13 | 13C () | | | | | i | 20 | 15 | -0 18 I | IN 13 |
| 13 | 13- 0 | | | ↓ | | 1 | 0 - | 0 | LO 16 | IN 13 |
| | r | + - | | - | ¦ | ¦- | | | + | 1 1 |
| | 140 0 | | | | | | 0.07 | -O ₁₃ | ⊢O 13 I | IN 14 |
| 14 | 14+ 0 | 1 | | | | _ | O 21 | | | |
| ! | 14- 0 | L | | | | | | 14 | +O 14 ! | <u> </u> |
| 1 | 15C O | 1 | l | - | | | | 011 | 0 11 | IN 15 |
| 15 | 15+ 0 | † | | | , L | + | O 22 | | | l I |
| | 15- 0 | | | t | + | | | 012 | 0 12 | IN 15. |
| | 160 0 | | | + | + | -1- | | <u> </u> | + ⊢O 9 | IN 16 |
| 16 | 16+ 〇 | + + | 1 | | ¦└─ | | | i | i i | i |
| | 16- 〇 | | | + | | + | | | LO 10 | IN 16 |
| | | j † - | | | † | ¦ - | | r | T — — - | T |
| | | | | | | ון | | 1 | 1 | |
| 1 | 1 | ; L | | | 1 | | | | | CBS |
| | L | L | · | + - | ⊥ | - !- | | L <u>-</u> 9 - | ¦≌º. | 000 |
| 5(+ | ×20 +) ○ | | | + | | • | | 1 | 1 | 1 |
| | | | ן ךי | | | | | i I | 1 | 1 |
| 6(- | | I | | + | 24V | 1 | | 1 | 1 | 1 |
| 3(+ | +) 0 | | | | | 1 | o | I I | l I | 1 |
| 4(- | · · · | J | | | | L | -0 15 | | | |
| 1 | ~ | Power Supply monitori | | | | | -O 14, 15 -O 2426 | | | 1 |
| | 0 | monitori | | | | | | 38 | 38 | |

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Classifications

eCl@ss

| eCl@ss 4.0 | 27250313 |
|------------|----------|
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27250313 |
| eCl@ss 5.1 | 27250313 |
| eCl@ss 6.0 | 27069203 |
| eCl@ss 7.0 | 27069203 |
| eCl@ss 8.0 | 27141152 |
| eCl@ss 9.0 | 27141152 |

ETIM

| ETIM 2.0 | EC001434 |
|----------|----------|
| ETIM 3.0 | EC001604 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC002780 |

UNSPSC

| UNSPSC 6.01 | 30211824 |
|---------------|----------|
| UNSPSC 7.0901 | 39121421 |
| UNSPSC 11 | 39121421 |
| UNSPSC 12.01 | 39121421 |
| UNSPSC 13.2 | 39121421 |

Accessories

Accessories

Front adapter

Front adapters - FLK 40-PA/EZ-DR/KS/ 100/YUC - 2322786



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/ 200/YUC - 2314341



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 300/YUC - 2314354



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 400/YUC - 2314367



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 500/YUC - 2321570



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 600/YUC - 2314943



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 6.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/ 700/YUC - 2321583



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 800/YUC - 2314956



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 900/YUC - 2321415



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1000/YUC - 2314370



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1100/YUC - 2321428



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 11.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/1200/YUC - 2321431



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1300/YUC - 2321444



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 13.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1400/YUC - 2321457



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 14.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1500/YUC - 2314383



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1600/YUC - 2321596



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 16.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/1700/YUC - 2321606



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 17.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1800/YUC - 2321619



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 18.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1900/YUC - 2321622



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 19.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/2500/YUC - 2314545



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/3000/YUC - 2314558



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/3500/YUC - 2901017



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/4000/YUC - 2901052



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 40.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/4500/YUC - 2902912



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 45.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 100/YUC - 2904747



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 200/YUC - 2904748



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 300/YUC - 2904749



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 400/YUC - 2904750



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 500/YUC - 2904645



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 600/YUC - 2904751



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 60.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 700/YUC - 2904752



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 800/YUC - 2904753



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

Cable - FLK 40-PA/EZ-DR/HF/KS/ 900/YUC - 2904754



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/1000/YUC - 2904646



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/1500/YUC - 2904647



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/2000/YUC - 2904488



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/2500/YUC - 2904648



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/3000/YUC - 2904649



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/3500/YUC - 2904650



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/4000/YUC - 2904651



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 40.0 m

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Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/4500/YUC - 2904652



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 45.0 m

Front adapters - FLK 40-PA/EZ-DR/HF/KS/5000/YUC - 2904653



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

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