ATEX Zone 2 Large Digit Display



KEY FEATURES

- 4 or 6 digits
- 5 digit colours available
- · Certified for use in ATEX zones 2 and 22
- IP66 sealed
- 316L stainless-steel enclosure
- Automatic Summer and Winter time correction
- Free-running or synchronised
- · Viewing distances up to 110m
- · AC or DC powered
- · Wall or suspension mounting
- · Alarm and data output options

DESCRIPTION

EXNR-FUSION large digit displays are primarily used for displaying numerical information, which is visible from a distance. The displays have alarm and data output options which can work with systems already in situ to control processes within that system.

The EXNR enclosure is made from 316L stainless-steel and certified for use in ATEX zones 2 and 22.

The EXNR-FUSION-H is available as 4 or 6 digits and can work in clock, calendar or timer mode. These are ideal in Takt timing applications, process curing and as count-down displays to a big event.

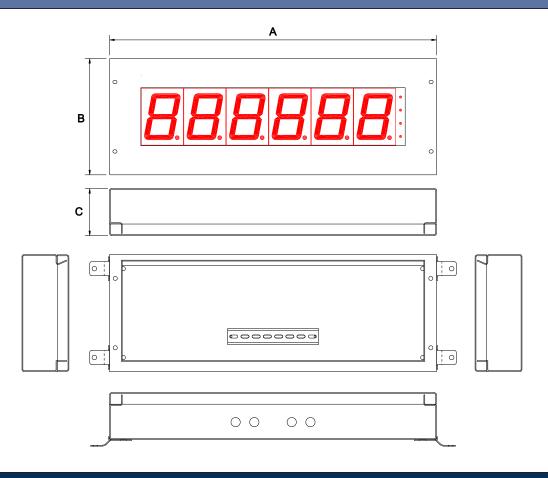
| OPERATING MODES | | | | | | |
|-----------------|------------------|--|--|--|--|--|
| Mode | Digit Format | Description | | | | |
| Clock | HH:MM / HH:MM:SS | Real time clock. Can be set as 12 or 24 hour clock. Daylight saving time can be set to OFF, Europe or US | | | | |
| Calendar | DD.MM.YY | Shows today's date in UK format | | | | |
| Calendar | MM.DD.YY | Shows today's date in US format | | | | |
| Day Counter | 8888 / 888888 | Counts up or down by 1 each day. Useful for counting days since last accident or days until an event | | | | |
| Timer | HH:MM | Counts up or down in hours and minutes | | | | |
| Timer | HH:MM:SS | Counts up or down in hours, minutes and seconds | | | | |
| Timer | MM:SS | Counts up or down in minutes and seconds | | | | |
| Timer | MMMM | Counts up or down in minutes | | | | |
| Timer | SSSS | Counts up or down in seconds | | | | |
| Timer | SSS.t | Counts up or down in seconds to 1/10 second resolution | | | | |
| Timer | SSSSS.t | Counts up or down in seconds to 1/10 second resolution | | | | |

Notes:

i. Be sure to select the correct number of digits for your application, either 4 or 6 digits

DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



| DIMENSIONS (mm) | | | | | | | | |
|-----------------|--------------|-----------|------------|-----------|--|--|--|--|
| Model | Digit Format | Width (A) | Height (B) | Depth (C) | | | | |
| EXNR-24 | 2" 4 digit | 350 | 225 | 100 | | | | |
| EXNR-26 | 2" 6 digit | 450 | 225 | 100 | | | | |
| EXNR-44 | 4" 4 digit | 525 | 250 | 100 | | | | |
| EXNR-46 | 4" 6 digit | 700 | 250 | 100 | | | | |
| EXNR-64 | 6" 4 digit | 625 | 350 | 100 | | | | |
| EXNR-66 | 6" 6 digit | 850 | 350 | 100 | | | | |
| EXNR-84 | 8" 4 digit | 800 | 400 | 100 | | | | |
| EXNR-86 | 8" 6 digit | 1125 | 400 | 100 | | | | |

Notes:

i. E & OE



EXNR-FUSION-H Clock / Timer Large Digit Display

| Viewing Distance (feet) 82 180 262 360 Viewing Distance (metres) 25 55 80 110 Number of Digits 4 or 6 4 6 Digit Format 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.88.88 8 Input Signal Real time clock module (DS3231SN) Accuracy Better than +/- 10 seconds per month Battery Backup CR1620 3V Lithium (retains time in memory during power loss but display is not lit) Digit Colour Green, red, yellow. Blue and white also available on 6° and 8° Brightness Indoor or outdoor with 7 levels of adjustment Power Supply 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional) Power Burden 40VA maximum Mounting Wall or suspension Logic Inputs 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental Enclosure Material 316L stainless-steel Enclosure Certification (dust) II 3 D Ex t RIIC 16 Gc Enclosure Certification (dust) II 3 D Ex t IIIC 785°C Dc IP66 Lens Material Polycarbonate, 6rmm thick Sealing | TECHNICAL DATA | | | | | | | | |
|--|--|--|-------------------------------|------------------------|----------|--|--|--|--|
| Viewing Distance (feet) 82 180 262 360 Viewing Distance (metres) 25 55 80 110 Number of Digits 4 or 6 1 110 Digit Format 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8. | Digit Height (inches) | 2.2 (F2) | 4.0 (F4) | 5.9 (F6) | 7.9 (F8) | | | | |
| Viewing Distance (metres) 25 55 80 110 | Digit Height (millimeters) | 57 | 102 | 150 | 200 | | | | |
| Number of Digits 4 or 6 Digit Format 8.8.8.8. 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8 | Viewing Distance (feet) | 82 | 180 | 262 | 360 | | | | |
| Digit Format 8.8.8.8., 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8. | Viewing Distance (metres) | 25 | 55 | 80 | 110 | | | | |
| Input Signal Accuracy Better than +/- 10 seconds per month Battery Backup CR1620 3V Lithium (retains time in memory during power loss but display is not lit) Digit Colour Green, red., yellow. Blue and white also available on 6" and 8" Brightness Indoor or outdoor with 7 levels of adjustment Power Supply 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional) Power Burden 40VA maximum Mounting Wall or suspension Logic Inputs 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental Enclosure Material 316L stainless-steel Enclosure Certification (gas) Ill 3 G EX nR IIC T6 Gc Enclosure Certification (dust) Ill 3 D Ex to IIIC T85°C Dc IP66 Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x SPCT mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x SPCT mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 105mS, for sol | Number of Digits | 4 or 6 | | | | | | | |
| Better than +/- 10 seconds per month | Digit Format | igit Format 8.8.8.8., 8.8.8.8.8., 88:88, 88:88:88 | | | | | | | |
| Battery Backup CR1620 3V Lithium (retains time in memory during power loss but display is not lit) Digit Colour Green, red, yellow. Blue and white also available on 6" and 8" Brightness Indoor or outdoor with 7 levels of adjustment Power Supply 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional) Power Burden 40VA maximum Mounting Wall or suspension Logic Inputs 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental Enclosure Material 316L stainless-steel Enclosure Certification (gas) II 3 G EX nR IIC T6 Gc Enclosure Certification (dust) Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Connectors Internal detachable screw terminal connectors accessed via compression glands Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load PSPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Porved from displayed value, updated x10 per second, display filtering applies to data output Imput Server Synchronisation (Optional) | Input Signal | | | | | | | | |
| Digit Colour Green, red, yellow. Blue and white also available on 6" and 8" Brightness Indoor or outdoor with 7 levels of adjustment Power Supply 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional) Power Burden 40VA maximum Mounting Wall or suspension Logic Inputs 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental Enclosure Material 316L stainless-steel Enclosure Certification (gas) II 3 G EX RR IIC T6 Gc Enclosure Certification (dust) II 3 D Ex to IIIC T85°C Dc IP66 Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature O°C to +50°C, non-condensing Connectors Internal detachable screw terminal connectors accessed via compression glands Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output logotion Polycon Sponse Speed Derived from displayed value, updated x10 per second, display filtering applies to data output logotion Imperover Synchronisation (Optional) | Accuracy | , , | | | | | | | |
| Brightness Indoor or outdoor with 7 levels of adjustment | Battery Backup | CR1620 3V Lit | · | | | | | | |
| Power Supply 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional) Power Burden 40VA maximum Mounting Wall or suspension Logic Inputs 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental Enclosure Material 316L stainless-steel Enclosure Certification (gas) II 3 G EX nR IIC T6 Gc Enclosure Certification (dust) II 3 D Ex tc IIIC T85°C Dc IP66 Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Connectors Internal detachable screw terminal connectors accessed via compression glands Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation Time Server Synchronisation (Optional) | Digit Colour | Green, red, ye | llow. Blue and white also av | ailable on 6" and 8" | | | | | |
| Power Burden Wall or suspension Wall or suspension 3 x NPN or contact closure for START, STOP and RESET when used in timing mode Environmental | Brightness | Indoor or outdo | oor with 7 levels of adjustme | ent | | | | | |
| Mounting Wall or suspension | Power Supply | • | | | | | | | |
| Same Note | Power Burden | 40VA maximun | | | | | | | |
| Enclosure Material 316L stainless-steel Enclosure Certification (gas) II 3 G EX nR IIC T6 Gc Enclosure Certification (dust) II 3 D Ex tc IIIC T85°C Dc IP66 Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Connectors Internal detachable screw terminal connectors accessed via compression glands AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation 250V AC optically isolated from input, logic, power and alarms output ports Time Server Synchronisation (Optional) | Mounting | Wall or suspension | | | | | | | |
| Enclosure Material 316L stainless-steel Enclosure Certification (gas) II 3 G EX nR IIC T6 Gc Enclosure Certification (dust) II 3 D Ex tc IIIC T85°C Dc IP66 Lens Material Polycarbonate, 6mm thick Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Connectors Internal detachable screw terminal connectors accessed via compression glands **Alarm Outputs (optional)** AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS **Data Output (optional)** 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) **Time Server Synchronisation (Optional)** Time Server Synchronisation (Optional) | Logic Inputs | 3 x NPN or cor | · · | | | | | | |
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| Polycarbonate, 6mm thick Sealing IP66 IP66 Polycarbonate, 6mm thick Polycarbonate, 6mm thick IP66 Polycarbonate, 6mm thick Polycarbonate, 6mm thick Polycarbonate, 6mm thick IP66 Polycarbonate, 6mm thick IP66 Polycarbonate, 70°C, non-condensing Polycarbonate, 70°C, non-conde | Enclosure Certification (gas) | II 3 G EX nR IIC T6 Gc | | | | | | | |
| Sealing IP66 Storage Temperature -20°C to +70°C, non-condensing Operating Temperature 0°C to +50°C, non-condensing Internal detachable screw terminal connectors accessed via compression glands **Alarm Outputs (optional)** **AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load **DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC **SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load **Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS **Data Output (optional)** **Para Output (optional)** **RS232 ASCII + Modbus ASCII **RTU Option Modbus RTU **Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation **Time Server Synchronisation (Optional)** | Enclosure Certification (dust) | II 3 D Ex tc IIIC T85°C Dc IP66 | | | | | | | |
| Storage Temperature Operating Temperature Op | Lens Material | Polycarbonate, 6mm thick | | | | | | | |
| Operating Temperature O°C to +50°C, non-condensing Internal detachable screw terminal connectors accessed via compression glands Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) | Sealing | IP66 | | | | | | | |
| AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) | Storage Temperature -20°C to +70°C, non-condensing | | | | | | | | |
| Alarm Outputs (optional) AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) | Operating Temperature | 0°C to +50°C, | 0°C to +50°C, non-condensing | | | | | | |
| AL2 and AL4 Option 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) | Connectors | | | | | | | | |
| DSS and QSS Option 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII RS422/RS485 ASCII + Modbus ASCII RTU Option Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Time Server Synchronisation (Optional) | | · · | Alarm Outputs (option | al) | | | | | |
| SPCO Option 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation Z50V AC optically isolated from input, logic, power and alarms output ports Time Server Synchronisation (Optional) | AL2 and AL4 Option | 2 or 4 x SPST | mechanical relays, 2A @ 2 | 50V AC, resistive load | | | | | |
| Response Speed For mechanical relays allow 105mS, for solid state relays allow 100mS Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output lsolation 250V AC optically isolated from input, logic, power and alarms output ports Time Server Synchronisation (Optional) | DSS and QSS Option | | | | | | | | |
| Data Output (optional) 232 Option RS232 ASCII 485 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Modbus RTU Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation Time Server Synchronisation (Optional) | SPCO Option | 1 1 1 | | | | | | | |
| 232 Option RS232 ASCII RS45 Option RS422/RS485 ASCII + Modbus ASCII RTU Option Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation Time Server Synchronisation (Optional) | Response Speed | | | | | | | | |
| RS422/RS485 ASCII + Modbus ASCII | | | | | | | | | |
| RTU Option Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation Derived from displayed value, updated x10 per second, display filtering applies to data output journal of the server Synchronisation (Optional) | 232 Option | RS232 ASCII | | | | | | | |
| Response Speed Derived from displayed value, updated x10 per second, display filtering applies to data output Isolation 250V AC optically isolated from input, logic, power and alarms output ports Time Server Synchronisation (Optional) | 485 Option | RS422/RS485 ASCII + Modbus ASCII | | | | | | | |
| Isolation 250V AC optically isolated from input, logic, power and alarms output ports Time Server Synchronisation (Optional) | RTU Option | Modbus RTU | | | | | | | |
| Time Server Synchronisation (Optional) | Response Speed | Derived from displayed value, updated x10 per second, display filtering applies to data output | | | | | | | |
| | Isolation | | | | | | | | |
| NTP Option Synchronisation with internet time server | Time Server Synchronisation (Optional) | | | | | | | | |
| | NTP Option | Synchronisatio | n with internet time server | | | | | | |



EXNR-FUSION-H Clock / Timer Large Digit Display

ORDERING GUIDE

Digit Height: EXNR-X - X - H - 0 - X - X 4 4 inches (102mm) 2 2 inches (57mm) 6 6 inches (150mm) 8 8 inches (200mm) **Digit Format:** 4 8.8.8.8. - 4 digit, numeric format 6 8.8.8.8.8 - 6 digit, numeric format **Function / Input Type:** H Clock / Timer **Analogue Output:** 0 None **Alarm Outputs:** 0 None AL2 2 x SPST mechanical relays AL4 4 x SPST mechanical relays DSS 2 x solid state relays (specify AC or DC) QSS 4 x solid state relays (specify AC or DC) SPCO 2 x SPCO mechanical relays **Data Output:** 485 RS422/485 + Modbus ASCII RTU Modbus RTU 0 None 232 RS232 **Digit Colour:** Indoor Outdoor **B** Blue 6" and above **BDLV** Blue 6" and above G Green **GDLV** Green R Red **RDLV** Red W White 6" and above **WDLV** White 6" and above Y Yellow YDLV Yellow Power: **48VAC** 48V AC AC 95-265V AC **DC** 11-30V DC Mounting: Wall, Cable glands on bottom surface 3 Suspension, Cable glands on bottom surface Wall, Cable glands on top surface Suspension, Cable glands on top surface

ADDITIONAL OPTION

NTP Synchronisation with internet time server

Our ATEX certified products are supplied certified for use in the condition in which they are supplied. No liability will be assumed for any loss or damages of any nature, direct or indirect. Including any loss of profits or consequential damages, injury or death suffered or incurred by the buyer as a consequence of failure to install, use and/or apply the product within the scope of the installation document and certification supplied.

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EXNR-FUSION-H_datasheet_rev4





