



EXNR-FUSION-H

Clock / Timer 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

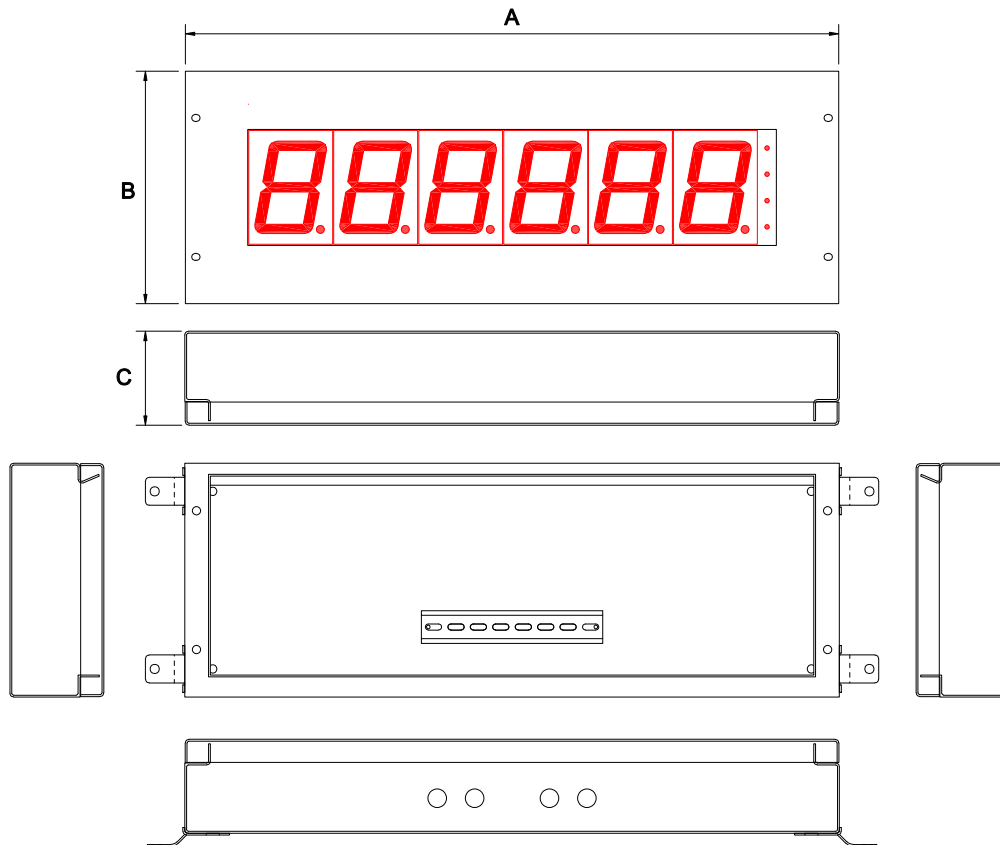
Notes:

- 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



TECHNICAL DATA

Digit Height (inches)	2.2 (F2)	4.0 (F4)	5.9 (F6)	7.9 (F8)
Digit Height (millimeters)	57	102	150	200
Viewing Distance (feet)	82	180	262	360
Viewing Distance (metres)	25	55	80	110
Number of Digits	4 or 6			
Digit Format	8.8.8.8., 8.8.8.8.8.8., 88:88, 88:88:88			
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 (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
Isolation	250V AC optically isolated from input, logic, power and alarms output ports

Time Server Synchronisation (Optional)

NTP Option	Synchronisation with internet time server
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ORDERING GUIDE

Digit Height:		EXNR - X	- X	- H	- 0	- X	- X	- X	- X	- X
2 2 inches (57mm)	4 4 inches (102mm)									
6 6 inches (150mm)	8 8 inches (200mm)									
Digit Format:										
4 8.8.8.8. - 4 digit, numeric format										
6 8.8.8.8.8.8 - 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:										
0 None		232 RS232	485 RS422/485 + Modbus ASCII	RTU Modbus RTU						
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:										
2 Wall, Cable glands on bottom surface										
3 Suspension, Cable glands on bottom surface										
4 Wall, Cable glands on top surface										
5 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.

