

LOAD CELL DISPLAY



1052 DISPLAY

Type: **EDOA**

- ACCURACY TYP. 0.05 %
- LOAD CELL 1 ... 3 mV/V
- 11.4 MM LED DISPLAY
- ALARM RELAY · 9 ... 32 V DC



Display

KEY DATA

Load cell	1 ... 3 mV/V via built-in EOLA, up to 4 × 350 Ω
Analogue inputs	0 ... 5 V / 0 ... 10 V · 0 ... 20 mA / 4 ... 20 mA
Accuracy	typ. 0.05 %, max. 0.2 % F.S.
Display	LED, 5 characters + sign, 11.4 mm
Output	alarm relay (solid-state, isolated)
Supply	9 ... 32 V DC
Mounting	round hole, thread M50 × 1.5, front Ø 70.72 mm

Nut and gasket for round hole mounting are supplied.



OVERVIEW

A round panel display for load cells: a built-in octogon EOLA (analogue weighing transmitter) accepts a strain gauge load cell with 1 ... 3 mV/V, up to four 350 Ω load cells in parallel. It also shows 0 ... 10 V or 4 ... 20 mA on a high-visibility LED display with 5 characters and sign, as voltage, current, percentage or scaled to user-defined values. It is operated via four capacitive touch keys in the front. An isolated solid-state relay signals when a set point is exceeded or undershot, and the display stores the minimum and maximum. It is mounted in a round hole with the supplied nut and gasket and supplied with 9 ... 32 V DC. Ideal for laboratory instrumentation, factory automation and industrial process monitoring.

INPUT AND DISPLAY

- 0 ... 5 V, 0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA
- accuracy typ. 0.05 %, max. 0.2 %
- load cell 1 ... 3 mV/V via EOLA
- LED 11.4 mm, 5 characters + sign
- min / max memory

OUTPUT AND DEVICE

- solid-state relay, isolated, ± 250 mA
- set point with hysteresis
- supply 9 ... 32 V DC
- round hole mounting, thread M50 $\times$ 1.5
- 0 ... +50 $^{\circ}$ C, 65 g



TECHNICAL DATA

INPUT AND MEASUREMENT

Load cell input	via built-in octagon EOLA · 1 ... 3 mV/V · up to 4 × 350 Ω · 4- or 6-wire
Bridge excitation	5 V DC / 60 mA (EOLA)
Voltage input	+VIN / -VIN · 0 ... 5 V or 0 ... 10 V
Current loop input	+ILOOP / -ILOOP · 0 ... 20 mA or 4 ... 20 mA
Absolute max. input voltage	-30 ... +30 V
Absolute max. input current	-100 ... +100 mA
Common mode range	± 48 V
Displayed value	voltage, current, % of range or user-scaled

PRECISION

Linearity EOLA	0.01 % F.S.
Thermal drift EOLA	0.005 % F.S./°C
Accuracy voltage	typ. 0.05 %, max. 0.2 % F.S.
Accuracy current	typ. 0.05 %, max. 0.2 % F.S.
Resolution	up to 4.5 digits
Display update rate	2.5 updates per second

ENVIRONMENT AND MECHANICS

Operating temperature	0 ... +50 °C
Storage temperature	-40 ... +75 °C
Humidity	0 ... 85 %, non-condensing
Housing	rugged polycarbonate
Mounting	round hole with nut and gasket (supplied) or screw mounting · thread M50 × 1.5
Weight	65 g

FUNCTIONS

Ranges	0 ... 5 V, 0 ... 10 V, 0 ... 20 mA; also as % of range (including 4 ... 20 mA) or scaled to user-defined low and high values
Min / max	stores the lowest and highest value since the last reset
Filter	digital: off, fast, slow
Alarm	relay when exceeding or falling below a set point, with hysteresis and relay test
Protection	menu optionally password-protected; returns to measuring mode after approx. 60 s without input

OUTPUTS AND INTERFACES

Relay output	solid-state relay, isolated · alarm via set point
Off-state voltage	-40 ... +40 V (RELAYA–RELAYB)
On-state current	-250 ... +250 mA
On-state resistance	1 Ω typ.
Terminals	3 screw terminal blocks · wire 14 ... 24 AWG · strip length 6 mm

DISPLAY AND OPERATION

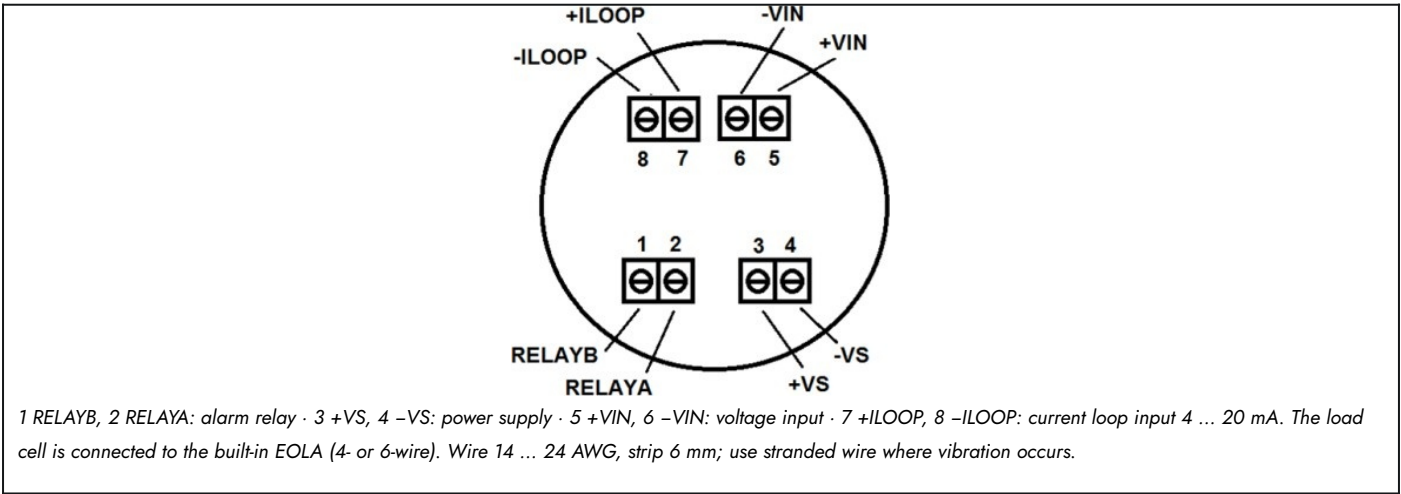
Display	5 characters + sign, alphanumeric LED, 11.4 mm
Annunciators	Alarm · Max · Min
Controls	4 capacitive touch keys (up, down, left, right)
Display modes	normal · minimum · maximum
Over-range	flashing value
Decimal point	automatic or selectable (user-scaled ranges)
Brightness	20 ... 100 % in 10 % steps

POWER SUPPLY

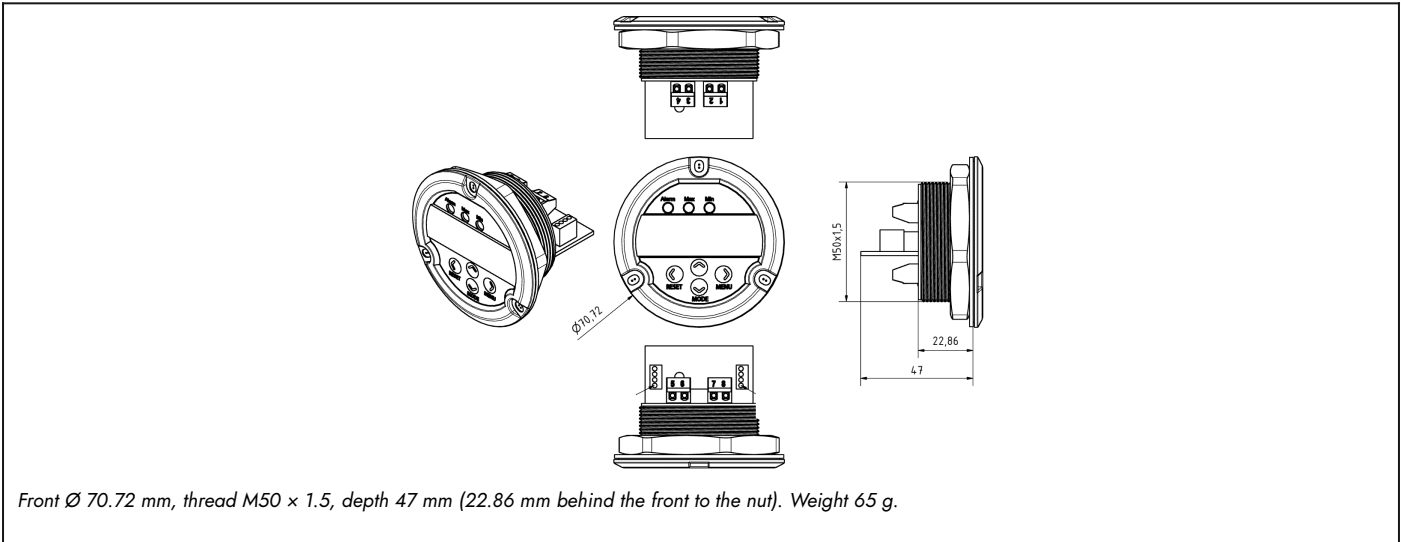
Supply voltage	9 ... 32 V DC
Supply EOLA	12 ... 24 V DC ± 10 %, 2 W
Supply current	typ. 40 mA at 12 V · 25 mA at 24 V



ELECTRICAL CONNECTION



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION



CE

CE marking



RoHS

RoHS compliant



REACH

REACH compliant

