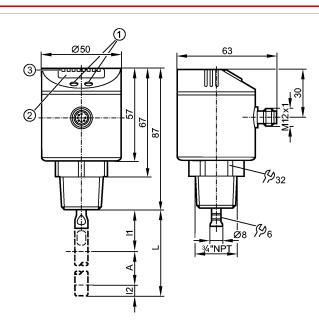
efector160

LR8300

LR0000B-BN34ASPKG/US



Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



- 1: 4-digit alphanumeric display
- 2: LEDs (display unit / switching status)
- 3: Programming buttons

Product characteristics

4-digit alphanumeric display

- A: Active zone
- I1 / I2: Inactive ranges





| Electronic level sensor | |
|-------------------------------|--|
| Quick disconnect | |
| Process connection: 3/4" NPT | |
| Guided wave radar | |
| Freely rotatable housing 360° | |
| Probe length: L = 1001600 mm | |
| 4 switch points | |

| Application | | |
|-----------------------------|--------------------|--|
| Application | | Hydrous coolants, water, media similar to water |
| Cannot be used for: | | oils, greases, granulates, bulk materials, acids, alkalis; hygienic and electroplating applications; heavily foaming media |
| Dielectric constant mediu | um | ≥ 20 |
| Medium temperature | [°C] | 080 (90 < 1 h) |
| Maximum speed of the clevel | hange of [mm/s] | 100 |
| Electrical data | | |
| | 1 | |

| Electrical data | | |
|-----------------------------|------|---------|
| Electrical design | | DC PNP |
| Operating voltage | [V] | 1830 DC |
| Current consumption | [mA] | < 80 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| | | |

Outputs

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| Output | | 4 switch points |
|--|-------|--|
| Output function | | 4 x normally open / closed programmable |
| Current rating | [mA] | 200 |
| Voltage drop | [V] | < 2.5 |
| Short-circuit protection | [-] | thermal, pulsed |
| Overload protection | | yes (max. 10 s) |
| Measuring / setting range | | |
| Probe length L | [mm] | 1001600 |
| Active range A | [mm] | L-40 |
| Inactive range I1 / I2 | [mm] | 30 / 10 |
| Setting range | | |
| Set point, SP | [mm] | ≥ 15 / ≤ L-30 |
| Reset point, rP | [mm] | ≥ 10 / ≤ L-35 |
| in steps of | [mm] | 5 |
| Hysteresis | [mm] | ≥ 5 |
| Accuracy / deviations | | |
| Deviations (in mm) | | |
| Switch point accuracy | | ± (15 + 0.5 % MEW) *) |
| Repeatability | | ± 5 |
| Reaction times | | |
| Power-on delay time | [s] | ≤ 3 |
| Interfaces | | |
| IO-Link Device | | |
| Transfer type | | COM2 (38.4 kBaud) |
| IO-Link revision | | 1.1 |
| SDCI standard | | IEC 61131-9 CDV |
| IO-Link Device ID | | 011 d / 00 00 B h |
| Profiles | | no profile |
| SIO mode | | yes |
| Required master port class | | Α |
| Process data analogue | | 1 |
| Process data binary | | 4 |
| Min. process cycle time | [ms] | 2.3 |
| Environment | | |
| Ambient temperature | [°C] | 060 |
| Storage temperature | [°C] | -2580 |
| | | |
| Maximum vessel pressure | [bar] | -116 |
| Maximum vessel pressure Protection | | -116 IP 67 |
| Protection Tests / approvals | | IP 67 |
| Protection Tests / approvals EMC | | |
| Protection Tests / approvals | | IP 67 |
| Protection Tests / approvals EMC | | IP 67 IEC 60947-1 |
| Protection Tests / approvals EMC Shock resistance | | IP 67 IEC 60947-1 DIN IEC 68-2-27: 50 g (11 ms) |
| Protection Tests / approvals EMC Shock resistance Vibration resistance | [bar] | IP 67 IEC 60947-1 DIN IEC 68-2-27: 50 g (11 ms) DIN IEC 68-2-6: 5 g (102000 Hz) |

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Materials (wetted parts) stainless steel (303S22); probe connection: stainless steel 316L / 1.4435; PTFE; FPM (Viton)

Housing materials stainless steel (304S15); FPM (Viton); PBT; PC; PEI; TPE / V; PTFE

Weight [kg] 0.332

Displays / operating elements

Display unit 3 x LED green
Switching status 4 x LED yellow

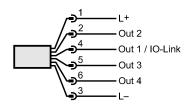
Level 4-digit alphanumeric display Programming 4-digit alphanumeric display

Electrical connection

Connection M12 connector (according to EN 61076-2-101); gold-plated contacts

Wiring





Programming of the switching outputs:

Hno = hysteresis / NO

Hnc = hysteresis / NC

Fno = window / NO

Fnc = window / NC

Accessories

Accessories (optional) Probe, part no. E43203...E43205 / E43207...E43210;

Matching accessories online next to the Datasheet → Accessories

1

Remarks

Remarks *) MEW = final value of the measuring range in mm; MEW = L - 30 mm

Pack quantity [piece]

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Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.