

design: 182x96x50

dif. reflection sensor sensing range 0.2 ... 30m

- ✓ housing material: corrosion-resistant aluminium strand casting
- ✓ glass lens
- ✓ easy alignment by means of visible laser
- ✓ class 2 laser
- ✓ analog- and switching output, separately programmable
- ✓ measuring range on all natural surfaces 30m, with additional reflectors up to more than 100m
- ✓ resolution of the measured values 0.1mm
- ✓ output of the measurands via data interface RS232/RS422



### applications:

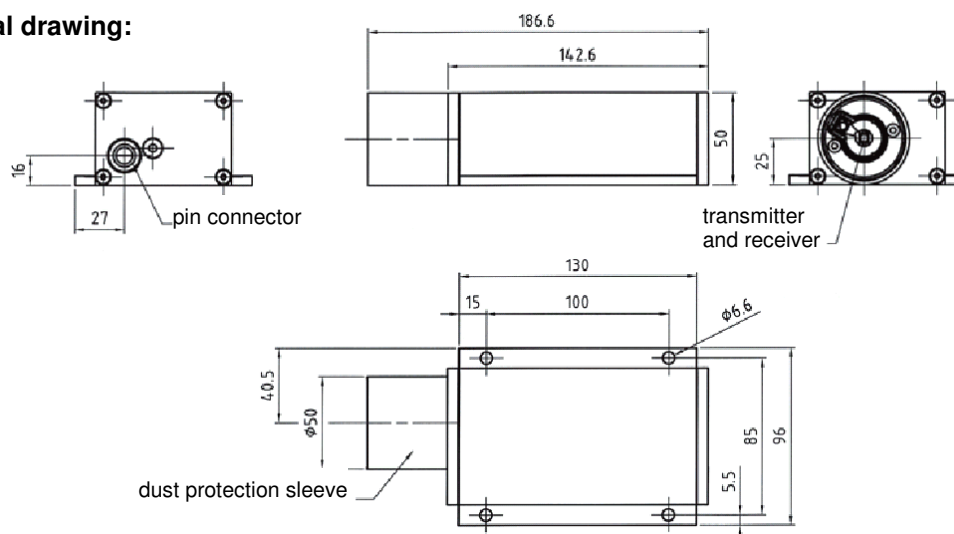
- ▶ control of conveying- and crane systems
- ▶ distance measurement / position recognition
- ▶ measurement of filling levels
- ▶ position control of moving objects

### technical data

### DC

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| operating voltage               | 10 ... 30V DC, reverse polarity protected                                                                                 |
| measuring range                 | 0.2 ... 30m on natural surfaces, depending on reflectivity<br>coefficient more than 100m possible                         |
| measuring accuracy              | +/- 3mm at distance range 0.2 ... 30m                                                                                     |
| resolution of measured values   | 0.1mm, free scaleable                                                                                                     |
| measuring rate                  | typical 5Hz (up to 10Hz possible)                                                                                         |
| digital switching output        | programmable switching threshold and hysteresis, high-side<br>switches up to 0.5A current rating, short-circuit protected |
| analog output                   | 4 ... 20mA, programmable distance limits                                                                                  |
| laser divergency                | 0.6mrad                                                                                                                   |
| operating temperature           | -10 ... +50 °C                                                                                                            |
| connection                      | interface-fixed cable                                                                                                     |
| power consumption               | < 0.4W at standby, < 1W at distance tracking                                                                              |
| data interface                  | RS232 / RS422 optional                                                                                                    |
| transmitting element            | laser diode red, 650nm                                                                                                    |
| system of protection (EN 60529) | IP65                                                                                                                      |

### dimensional drawing:



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**Warning:** Never use these devices in applications where the safety of a person depends on their functionality!