

ϵ



Model Number

SU180-SD/40b/110/115

external amplifier
With fixed cable, 1-pin

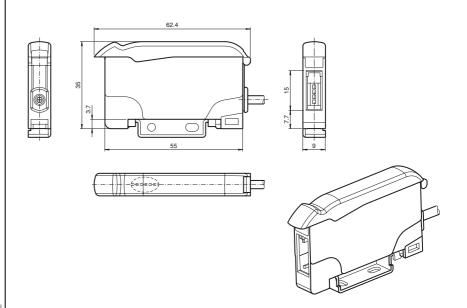
Features

- Control interface unit for ML10 series miniature sensors
- Slave module
- · No TEACH-IN required
- · Gang mounting for easy wiring
- Ultra bright LEDs for power on and switching state
- Light/dark ON, programmable
- Alignable housing
- · DIN rail mounting
- Tamper-proof version with no adjustments

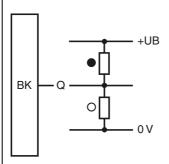
Product information

Signal transformers in the SU180 series are suitable for connecting miniature diffusemode photoelectric sensors with true background suppression (HGA). In order to keep wiring costs low, up to 20 slave modules can be connected via the supplied bridge connectors to one master. The signal transformers can be arranged directly next to each other on a DIN mounting rail. Individual devices have a light ON/dark ON switch and a switch for the output circuitry (NPN, PNP, push-pull). In a network, the light ON/dark ON switch can be applied simultaneously to all devices via the I/O pin. Both devices are available in tamper-proof versions. Installation becomes more efficient due to the lower wiring expense and the quick and easy snap-on mounting of the signal transformers.

Dimensions

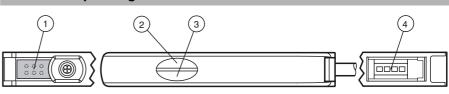


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



1	Bridge contacts	3	Operating indicator, green
2	Function display, vellow	4	Sensor connection

www.pepperl-fuchs.com

Technical data General specifications depends on the sensor being used Detection range Accessories provided Bridge contacts maximum 20 units Gang mounting Functional safety related parameters 1540 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green, statically lit Power on Operating display Function display LED yellow: lights when object is detected **Electrical specifications** Operating voltage U_B 10 ... 30 V DC 10 % Ripple No-load supply current 20 mA I_0 Input Number/Type Connection 1 Sensor head: Series ML10 Output Switching type light/dark on, switchable 1 push-pull (4 in 1) output, short-circuit protected, reverse pola-Signal output rity protected Switching voltage max. 30 V DC max. 100 mA Switching current < 2.5 V Voltage drop U_d Switching frequency 1000 Hz Response time 500 μs **Ambient conditions** Ambient temperature -10 ... 55 °C (14 ... 131 °F) Storage temperature -20 ... 70 °C (-4 ... 158 °F) Mechanical specifications Core cross-section 1 x 0.25 mm² Protection degree IP50, for installation in a control cabinet or a housing with a degree of protection of at least IP54 Connection 2 m fixed cable, 1 x 0.25 mm² Material Housing PC Cable PVC Installation Standard rail acc. to DIN EN 60715, 35 mm DIN rail Mass 50 g Compliance with standards and directives Standard conformity FN 60947-5-2:2007 Product standard IEC 60947-5-2:2007

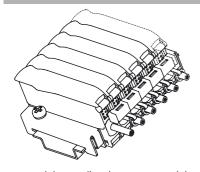
Shock and impact resistance IEC / EN 60068. half-sine, 40 g in each X, Y and Z directions IEC / EN 60068-2-6. Sinus. 10 -2000 Hz, 10 g in each X, Y and Vibration resistance

Z directions

Approvals and certificates

UL approval cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Modular construction



The slave modules can be connected to the master module using the bridge contacts supplied on the slave modules.

When connecting several modules using bridge contacts, please ensure that the black blind pins on the bridge contacts are cut off. The outer blind pins must be retained only on the two outer bridge contacts; this is to seal off the pins that are not in use.

Master modules must not be connected to one another via the bridge contacts.

The power applied to the external input on the mas-

ter module supplies the master module and all connected slave modules.

Information regarding current consumption:

A master module is required to operate a slave module.

- a) Maximum of 20 units (19 slaves per master); maximum current consumption = 20 mA per unit.
- b) Maximum of 10 units (9 slaves per master); maximum current consumption = 70 mA per

Accessories

ML10-8-H-3,2-IR/115e

Bracket SU

Mounting bracket for DIN rail

Other suitable accessories can be found at www.pepperl-fuchs.com



Copyright Pepperl+Fuchs

Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

unit.

c) Maximum of 8 units (7 slaves per master); maximum current consumption = 110 mA per unit.