



Model Number

SU180-SD/40b/110/115

external amplifier With fixed cable, 1-pin

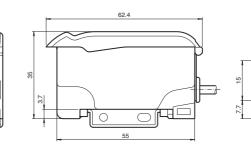
Features

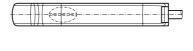
- Control interface unit for ML10 series • miniature sensors
- Slave module
- No TEACH-IN required .
- Gang mounting for easy wiring •
- Ultra bright LEDs for power on and ٠ switching state
- Light/dark ON, programmable .
- Alignable housing •
- **DIN** rail mounting
- Tamper-proof version with no adjust-• ments

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.

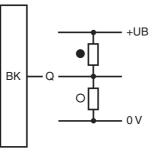
Dimensions





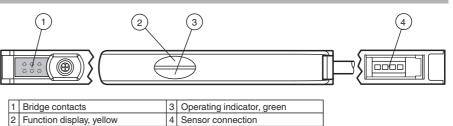


Electrical connection





Indicators/operating means



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General specifications	
Detection range	depends on the sensor being used
Accessories provided	Bridge contacts
Gang mounting	maximum 20 units
Functional safety related parame	
MTTF _d	1540 a
Mission Time (T _M)	20 a 0 %
Diagnostic Coverage (DC)	0 %
ndicators/operating means	LED groop, statically lit Power on
Operation indicator Function indicator	LED green, statically lit Power on LED yellow: lights when object is detected
Electrical specifications	LLD yellow. lights when object is detected
Operating voltage	J _B 10 30 V DC
Ripple	10 %
No-load supply current	0 20 mA
nput	0
Number/Type	Connection 1 Sensor head: Series ML10
Dutput	
Switching type	light/dark on, switchable
Signal output	1 push-pull (4 in 1) output, short-circuit protected, reverse pola-
-	rity protected
Switching voltage	max. 30 V DC
Switching current	max. 100 mA
Voltage drop	J _d < 2.5 V
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	1 x 0.25 mm ²
Core cross-section	
Degree of protection	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 mm ²
Material	50
Housing	PC
Cable Installation	PVC Standard rail acc. to DIN EN 60715 , 35 mm DIN mounting rail
Mass	50 g
Cable length	2 m
Compliance with standards and o	
es	Tech-
Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007
Shock and impact resistance	IEC / EN 60068. half-sine, 40 g in each X, Y and Z directions
Vibration resistance	IEC / EN 60068-2-6. Sinus. 10 -2000 Hz, 10 g in each X, Y and J directions
Approvals and certificates	
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated \leq 36 V
Iodular construction	
	The slave modules can be connected to the maste
	module using the bridge contacts supplied on the slave modules.
	When connecting several modules using bridge con- tacts, please ensure that the black blind pins on the bridge contacts are cut off. The outer blind pins mus 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 ano
	ther via the bridge contacts.

Information regarding current consumption:

a) Maximum of 20 units (19 slaves per master); maximum current consumption = 20 mA per uniť.

b) Maximum of 10 units (9 slaves per master); maximum current consumption = 70 mA per

	SU180-SD/40b/110/115
	Accessories
	ML10-8-H-3,2-IR/115e Background suppression sensor, fiber- optic type, miniature design, 3.2 mm de- tection range, infrared light, fixed cable with flat connector, for operation with SU100 or SU180 Series control interface units
	Bracket SU Mounting bracket for DIN rail
	Other suitable accessories can be found at www.pepperl-fuchs.com
ected, reverse pola-	



unit.

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

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