



Model Number

SU180-MD/40b/110/115

external amplifier with fixed cable

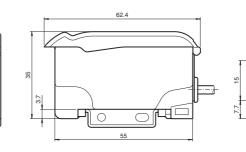
Features

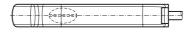
- Control interface unit for ML10 series • miniature sensors
- Master module
- No TEACH-IN required .
- Gang mounting for easy wiring
- Ultra bright LEDs for power on and ٠ switching state
- Light/dark ON, programmable .
- Alignable housing •
- **DIN** rail mounting
- Tamper-proof version with no adjust-•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

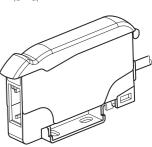
Product information

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.

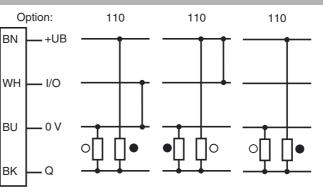
Dimensions







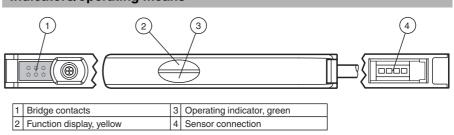
Electrical connection



The circuitry for the external input applies to the master and all connected slave modules

- = Light on 0
- = Dark on

Indicators/operating means



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical data

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Technical data		
General specifications		
Detection range		depends on the sensor being used
Gang mounting		maximum 20 units
Functional safety related parameter	ers	
MTTF _d		1540 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green, statically lit Power on
Function indicator		LED yellow: lights when object is detected
Electrical specifications	1	10 20 1/ 00
Operating voltage I Ripple	J _B	10 30 V DC 10 %
	0	20 mA
Input	0	
Number/Type		Connection 1 Sensor head: Series ML10
Output		
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
	Jd	< 2.5 V
Switching frequency f		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		4 x 0.14 mm ²
Core cross-section Degree of protection		IP50, for installation in a control cabinet or a housing with a
Degree of protection		degree of protection of at least IP54
Connection		2 m fixed cable , 4 x 0.14 mm ²
Material		
Housing		PC
Cable		PVC
Installation		Standard rail acc. to DIN EN 60715 , 35 mm DIN mounting rail
Mass		50 g
Cable length		2 m
Compliance with standards and di ves	irecti-	
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 Z
		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
		ан а
Modular construction		
		The slave modules can be connected to the master
		module using the bridge contacts supplied on the
	R	slave modules.
		When connecting several modules using bridge con-
	Æ	tacts, please ensure that the black blind pins on the
	<u>Ro</u>	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 ano-
		ther 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.		
A master module is required to operate a slave module.		
Information regarding current consumption:		
a) Maximum of 20 units (19 sla	ves p	er master); maximum current consumption = 20 mA per
unit.		

unit.

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

optic type, miniature design, 3.2 mm detection range, infrared light, fixed cable with flat connector, for operation with SU100 or SU180 Series control interface units

Bracket SU

Accessories

Mounting bracket for DIN rail

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



unit.

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

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