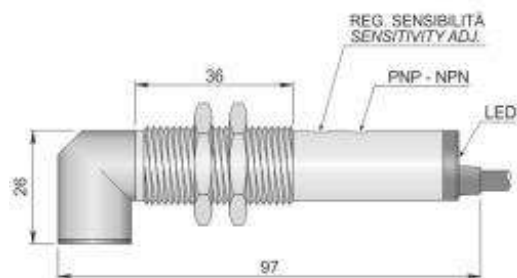




Part number: FT1000517 - Model: FT18SM-CP20 90



Dimension in mm

TECHNICAL CHARACTERISTICS

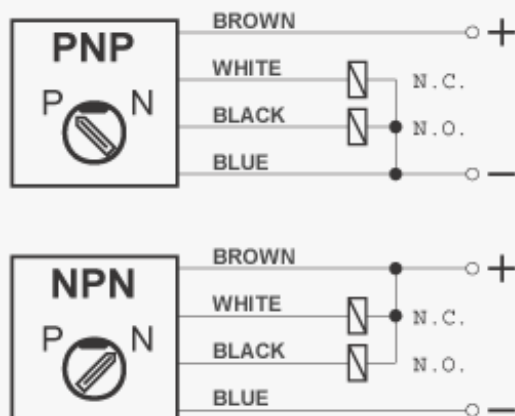
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	130 g



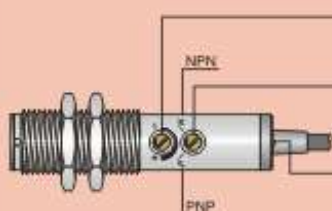
Part number: FT1000517 - Model: FT18SM-CP20 90

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



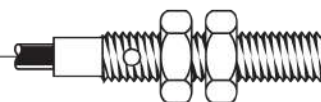
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

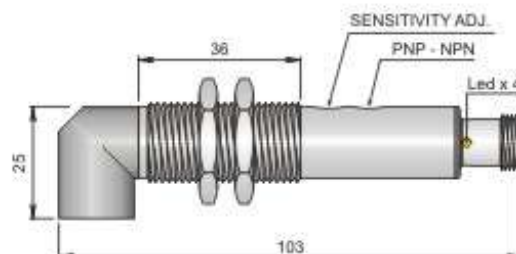
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



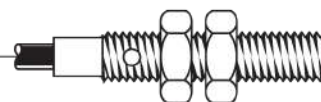
Part number: FT1000521 - Model: FT18SM-CP20 90 H



Dimension in mm

TECHNICAL CHARACTERISTICS

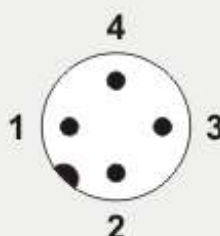
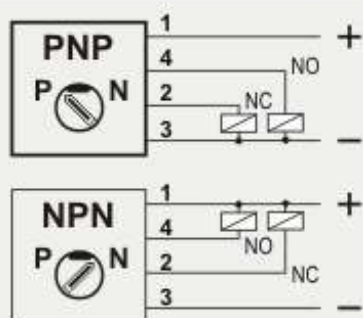
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	H plug
Weight:	75 g



Part number: FT1000521 - Model: FT18SM-CP20 90 H

WIRING DIAGRAM

CONNECTION WITH H PLUG



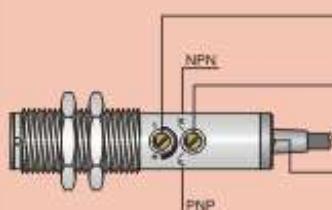
VIEW OF MALE CONNECTOR

1 = Brown / +
3 = Blue / -
4 = Black / output NO
2 = White / output NC

INSTRUCTIONS FOR CORRECT INSTALLATION



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

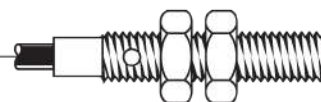
• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

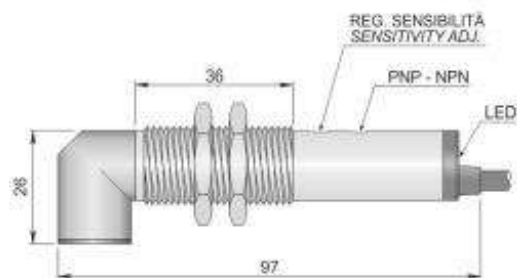
NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.





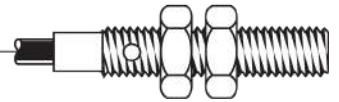
Part number: FT1000519 - Model: FT18SM-CP20 90 LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

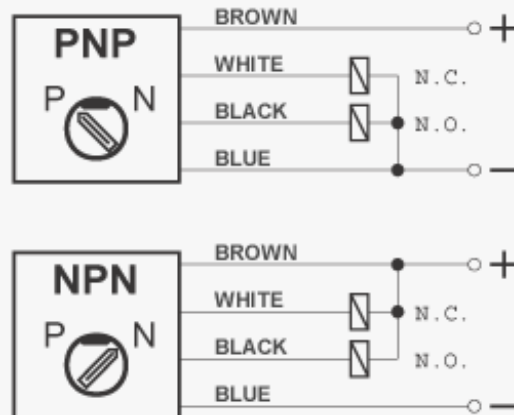
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	360 g



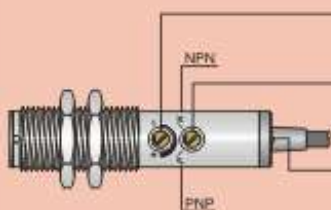
Part number: FT1000519 - Model: FT18SM-CP20 90 LC10

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



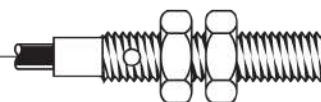
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

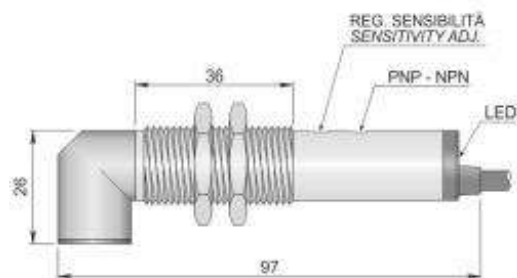
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



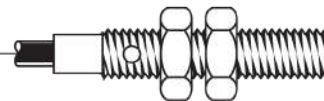
Part number: FT1000518 - Model: FT18SM-CP20 90 LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

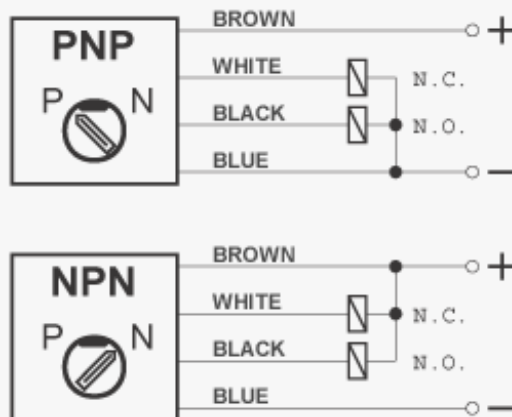
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	220 g



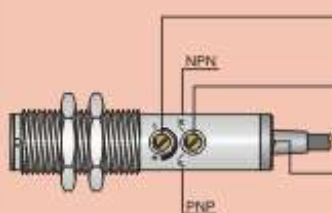
Part number: FT1000518 - Model: FT18SM-CP20 90 LC5

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



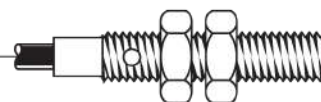
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

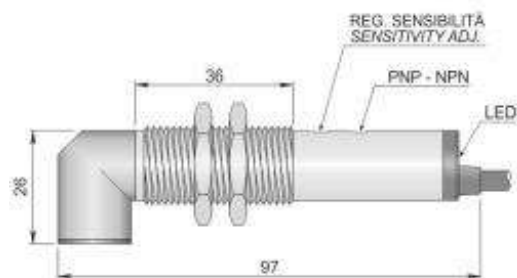
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



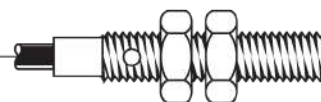
Part number: FT1000518 - Model: FT18SM-CP20 90 LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

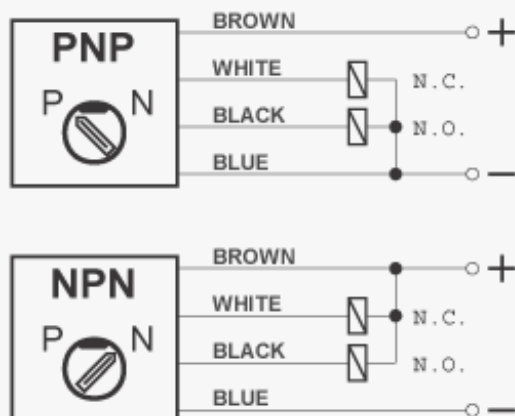
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	220 g



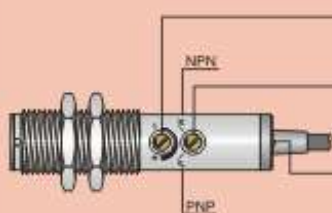
Part number: FT1000518 - Model: FT18SM-CP20 90 LC5

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



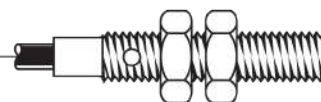
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

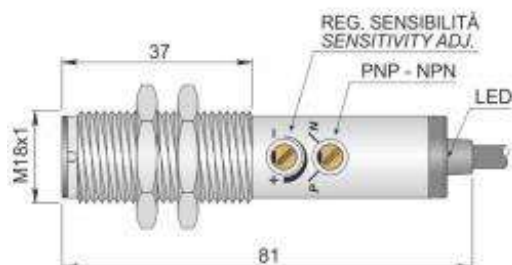
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



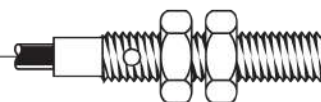
Part number: FT1000516 - Model: FT18SM-CP20 LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

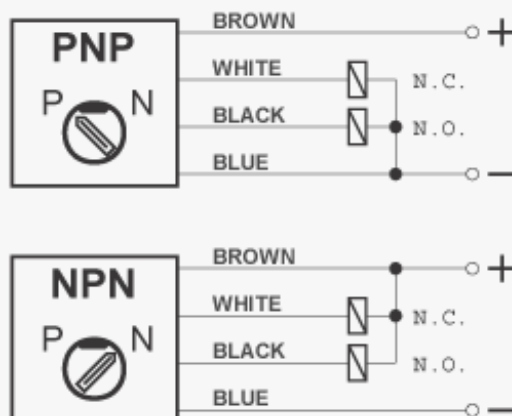
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	360 g



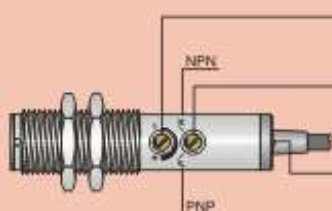
Part number: FT1000516 - Model: FT18SM-CP20 LC10

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



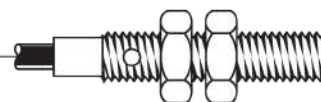
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

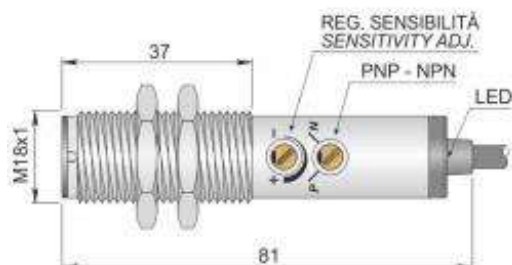
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



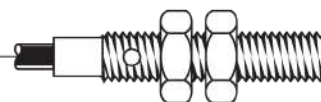
Part number: FT1000516 - Model: FT18SM-CP20 LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

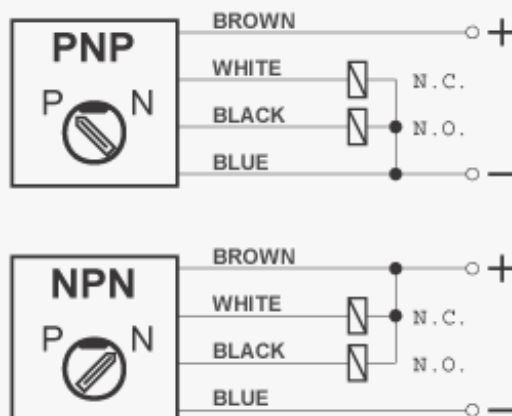
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	360 g



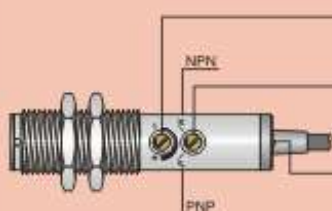
Part number: FT1000516 - Model: FT18SM-CP20 LC10

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



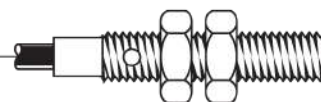
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

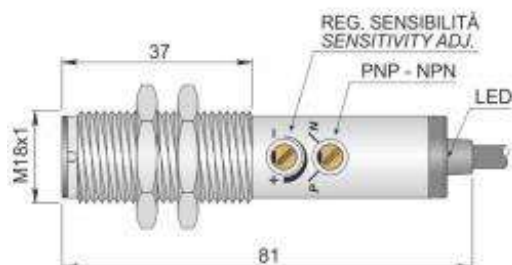
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



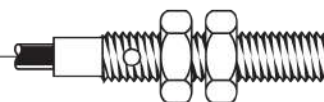
Part number: FT1000515 - Model: FT18SM-CP20 LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

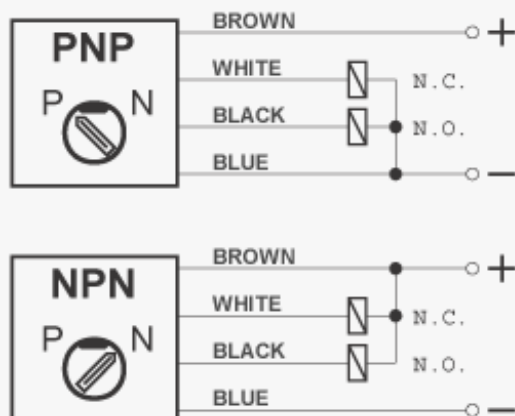
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	220 g



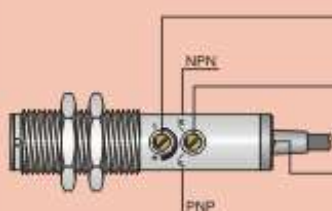
Part number: FT1000515 - Model: FT18SM-CP20 LC5

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



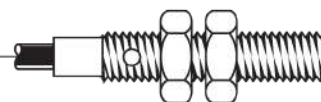
• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

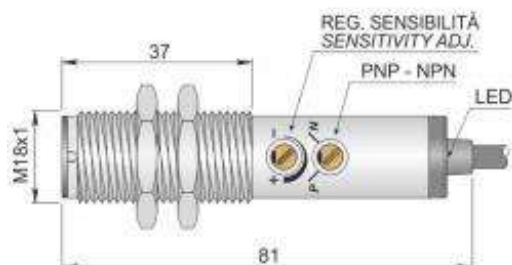
• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.



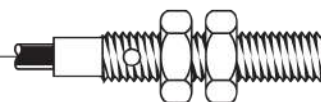
Part number: FT1000514 - Model: FT18SM-CP20



Dimension in mm

TECHNICAL CHARACTERISTICS

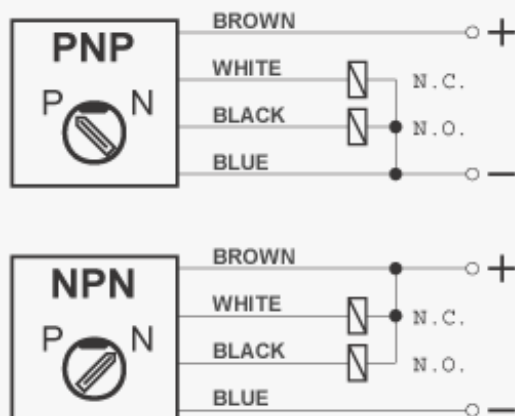
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	0 ÷ 20 (adjustable)
Output type:	DC PNP/NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Infrared
Power on delay:	< = 100 mSec
Max switching frequency:	400 Hz
Max output current:	200 mA
Absorption:	< = 50 mA @ 24 Vdc
Voltage drop:	< = 1.8V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	130 g



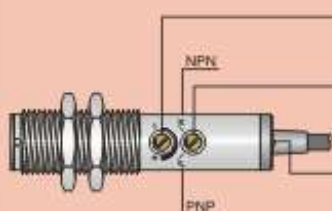
Part number: FT1000514 - Model: FT18SM-CP20

WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN+PNP / NO+NC



INSTRUCTIONS FOR THE PROGRAMMING AND ADJUSTMENT



• **TRIMMER FOR THE SENSING RANGE ADJUSTMENT** : The photocell is supplied with max. sensing range with the trimmer totally rotated in the clockwise direction. The sensitivity reduces by rotating the trimmer in the anti-clockwise direction.

• **SWITCH NPN / PNP** : The photocell is supplied with the switch in P (PNP output). To change to NPN turn the switch to N in the anti-clockwise direction.
WARNING ! For a correct working of the unit, do not carry out the switching when the photocell is powered.

• **YELLOW LED - OPERATION INDICATOR** : This led is ON when the object to be detected enters the sensing range of the photocell giving output signals.

NOTE ! Before giving a power supply to the photocell it is recommended that the same unit be programmed by using the switch in the required function NPN or PNP.

NOTE ! It is recommended that the trimmer and the switch would be rotated very carefully by using a proper tool otherwise these can be seriously damaged.