



Part number: FT1000303 - Model: FT18EL-CAR NPN NO+NC 90



Dimension in mm

TECHNICAL CHARACTERISTICS

Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	85 g



Part number: FT1000303 - Model: FT18EL-CAR NPN NO+NC 90

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

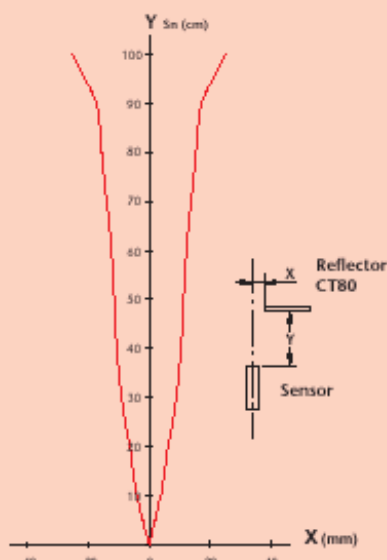
TYPES

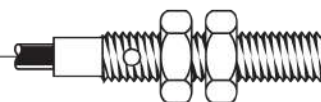
Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





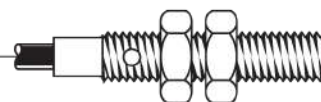
Part number: FT1000375 - Model: FT18EL-CAR NPN NO+NC 90 LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

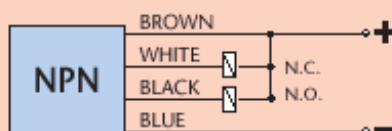
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	310 g



Part number: FT1000375 - Model: FT18EL-CAR NPN NO+NC 90 LC10

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

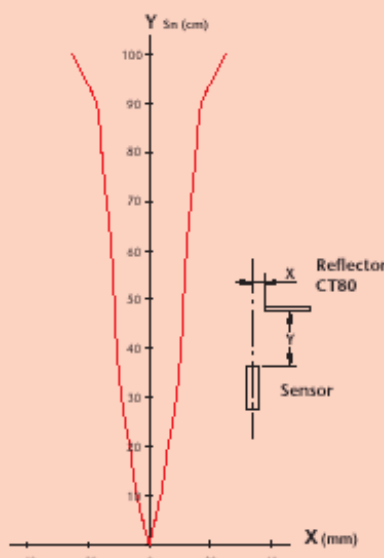
TYPES

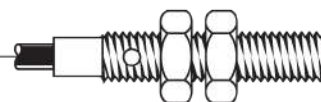
Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





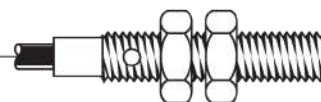
Part number: FT1000373 - Model: FT18EL-CAR NPN NO+NC 90 LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

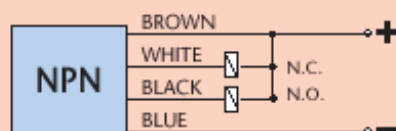
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	170 g



Part number: FT1000373 - Model: FT18EL-CAR NPN NO+NC 90 LC5

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

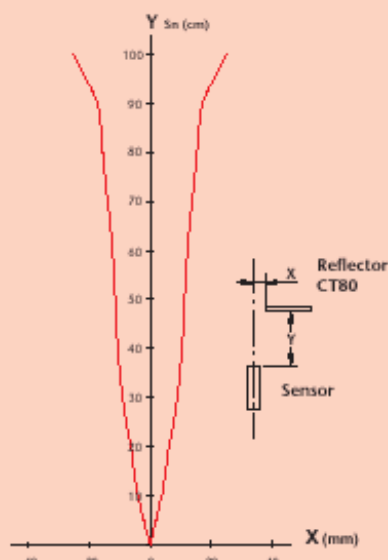
TYPES

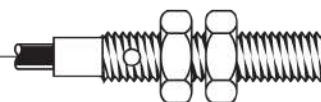
Polarized reflection with reflector (AR type)



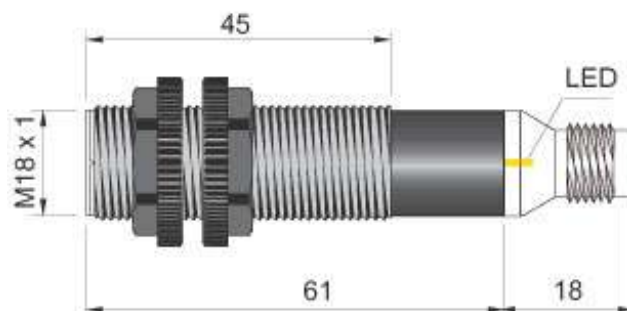
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





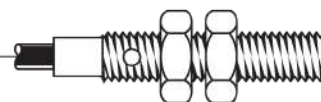
Part number: FT1000284 - Model: FT18EL-CAR NPN NO+NC H



Dimension in mm

TECHNICAL CHARACTERISTICS

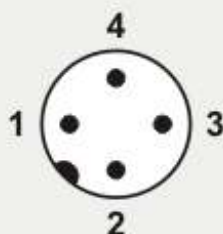
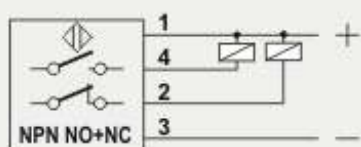
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	Depending on connector
Housing material:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	H plug
Weight:	30 g



Part number: FT1000284 - Model: FT18EL-CAR NPN NO+NC 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

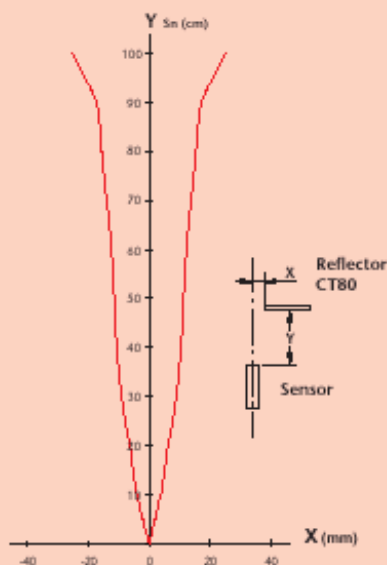
TYPES

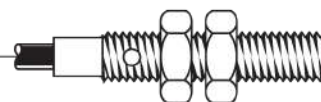
Polarized reflection with reflector (AR type)



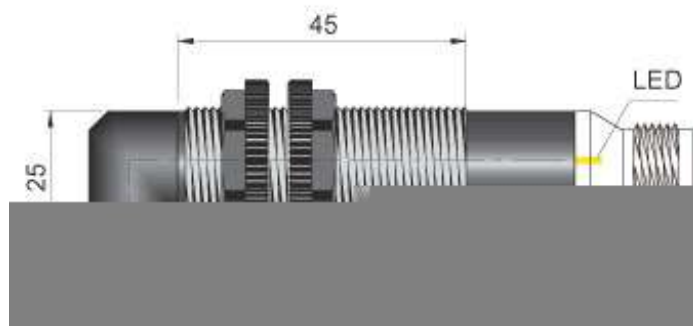
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





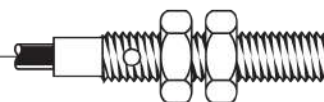
Part number: FT1000304 - Model: FT18EL-CAR NPN NO+NC H 90



Dimension in mm

TECHNICAL CHARACTERISTICS

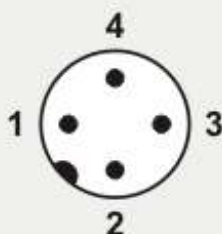
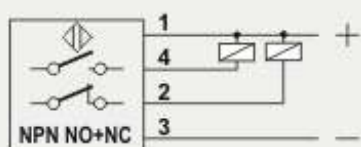
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	Depending on connector
Housing material:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	H plug
Weight:	35 g



Part number: FT1000304 - Model: FT18EL-CAR NPN NO+NC H 90

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

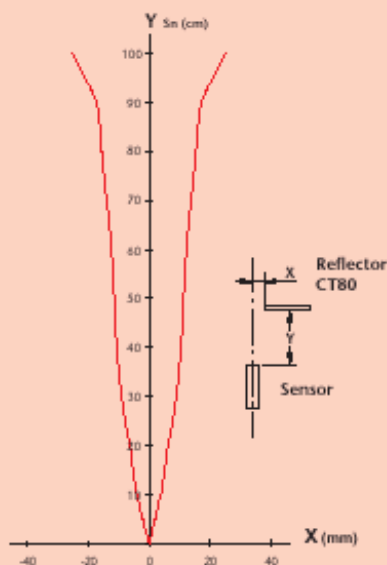
TYPES

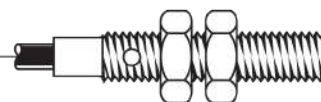
Polarized reflection with reflector (AR type)



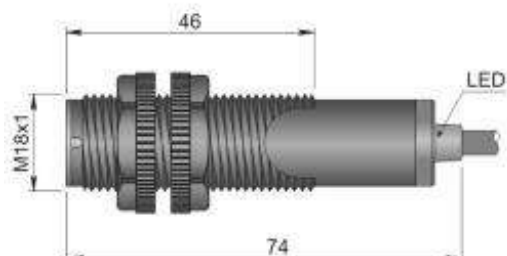
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





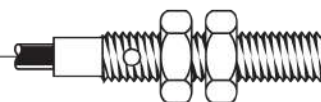
Part number: FT1000339 - Model: FT18EL-CAR NPN NO+NC LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	310 g



Part number: FT1000339 - Model: FT18EL-CAR NPN NO+NC LC10

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

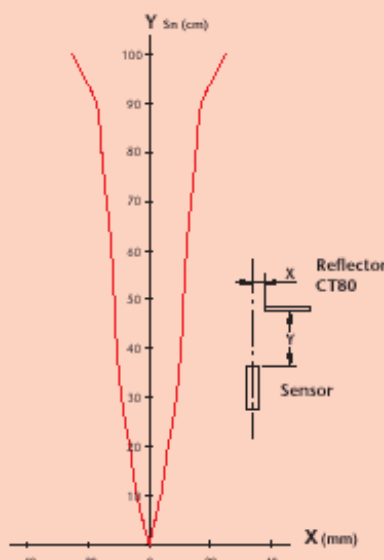
TYPES

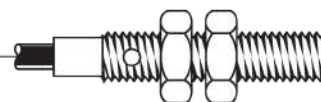
Polarized reflection with reflector (AR type)



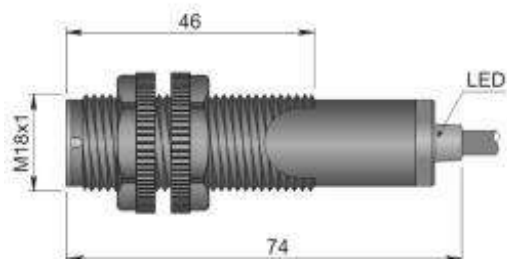
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





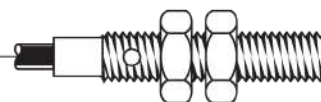
Part number: FT1000337 - Model: FT18EL-CAR NPN NO+NC LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	170 g



Part number: FT1000337 - Model: FT18EL-CAR NPN NO+NC LC5

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

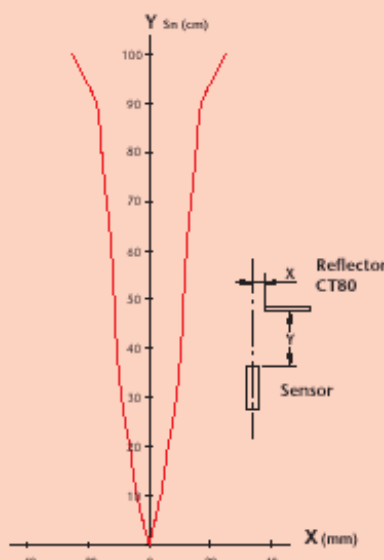
TYPES

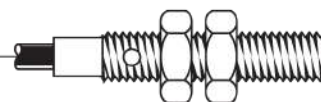
Polarized reflection with reflector (AR type)



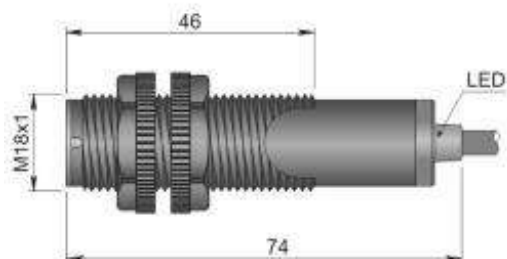
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





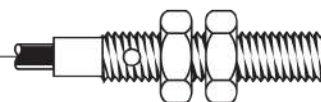
Part number: FT1000281 - Model: FT18EL-CAR PNP NO+NC



Dimension in mm

TECHNICAL CHARACTERISTICS

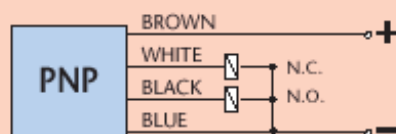
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	80 g



Part number: FT1000281 - Model: FT18EL-CAR PNP NO+NC

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

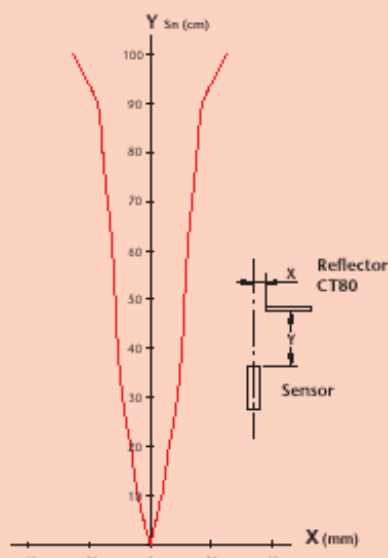
TYPES

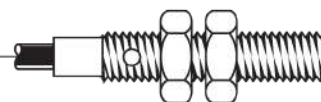
Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





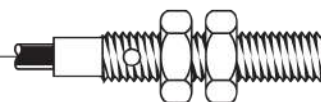
Part number: FT1000301 - Model: FT18EL-CAR PNP NO+NC 90



Dimension in mm

TECHNICAL CHARACTERISTICS

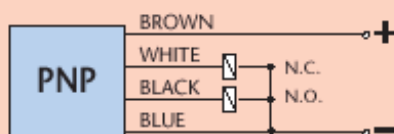
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	85 g



Part number: FT1000301 - Model: FT18EL-CAR PNP NO+NC 90

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

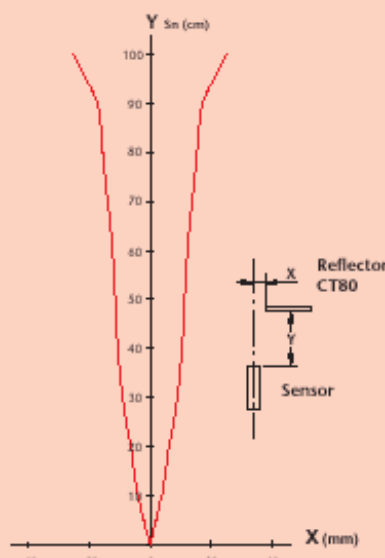
TYPES

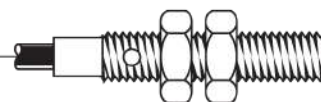
Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





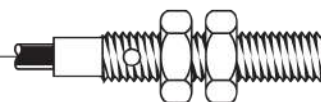
Part number: FT1000371 - Model: FT18EL-CAR PNP NO+NC 90 LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

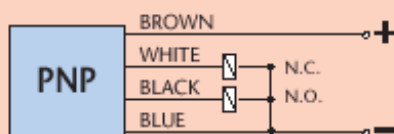
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	310 g



Part number: FT1000371 - Model: FT18EL-CAR PNP NO+NC 90 LC10

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

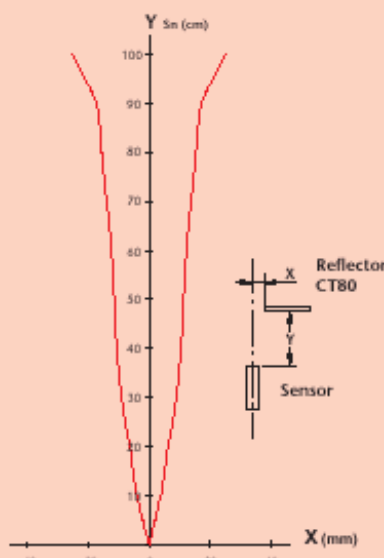
TYPES

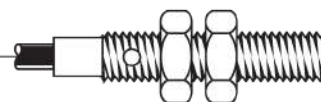
Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





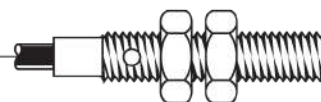
Part number: FT1000369 - Model: FT18EL-CAR PNP NO+NC 90 LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

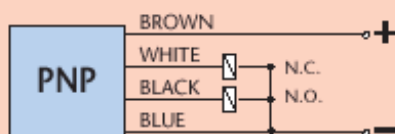
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	170 g



Part number: FT1000369 - Model: FT18EL-CAR PNP NO+NC 90 LC5

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

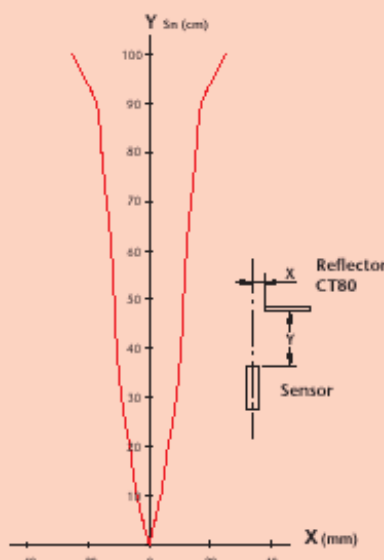
TYPES

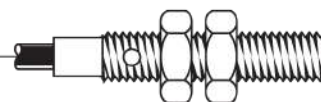
Polarized reflection with reflector (AR type)



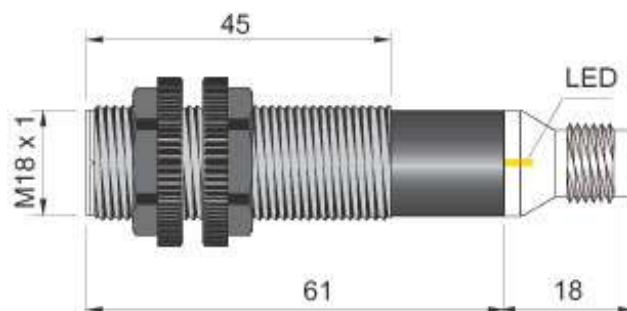
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





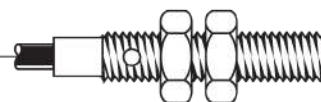
Part number: FT1000282 - Model: FT18EL-CAR PNP NO+NC H



Dimension in mm

TECHNICAL CHARACTERISTICS

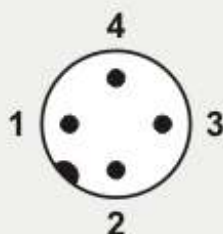
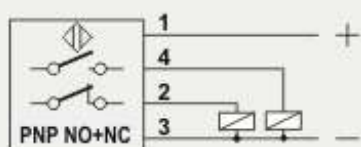
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
Short circuit protection:	Present
Interference from external light:	> 10000 Lux
Led indicator:	Yellow = operation indicator
Temperature limits:	-20 ÷ +50 °C
IP rating:	Depending on connector
Housing material:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	H plug
Weight:	30 g



Part number: FT1000282 - Model: FT18EL-CAR PNP NO+NC 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

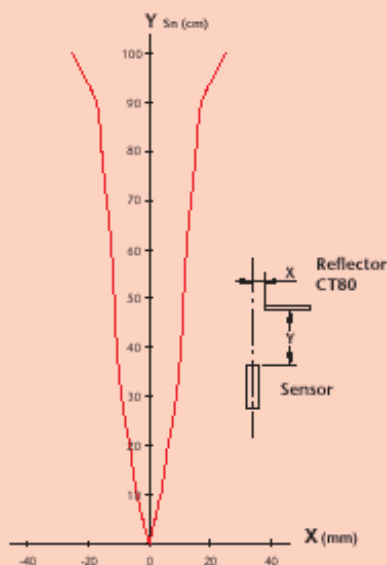
TYPES

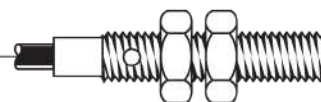
Polarized reflection with reflector (AR type)



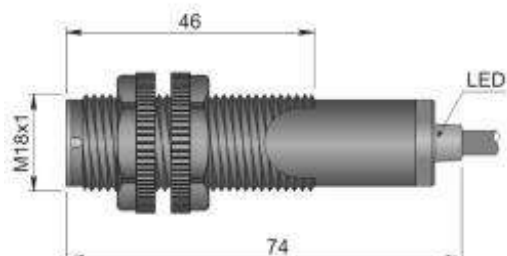
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





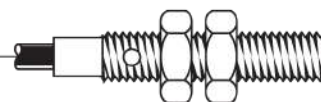
Part number: FT1000335 - Model: FT18EL-CAR PNP NO+NC LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

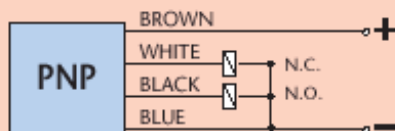
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	310 g



Part number: FT1000335 - Model: FT18EL-CAR PNP NO+NC LC10

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

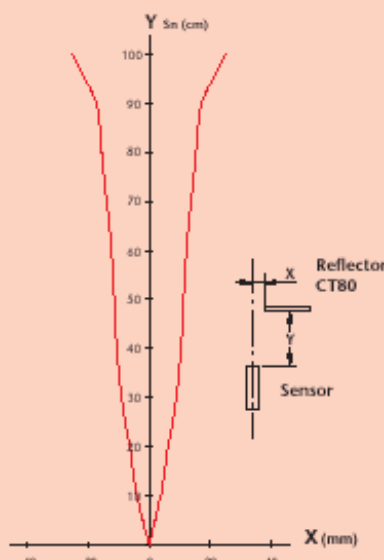
TYPES

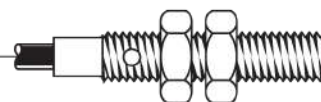
Polarized reflection with reflector (AR type)



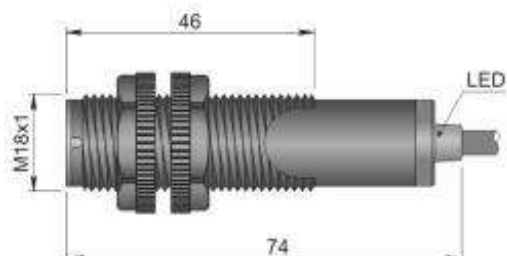
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





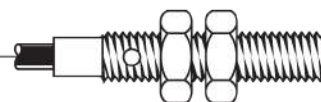
Part number: FT1000335 - Model: FT18EL-CAR PNP NO+NC LC10



Dimension in mm

TECHNICAL CHARACTERISTICS

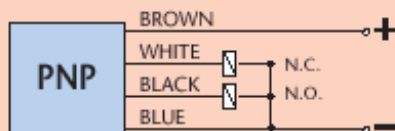
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 10 m
Cable type:	4x0.25 PVC
Weight:	310 g



Part number: FT1000335 - Model: FT18EL-CAR PNP NO+NC LC10

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

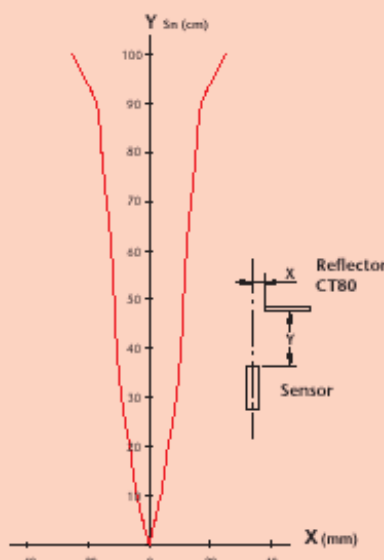
TYPES

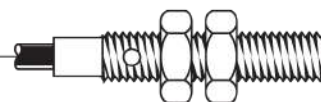
Polarized reflection with reflector (AR type)



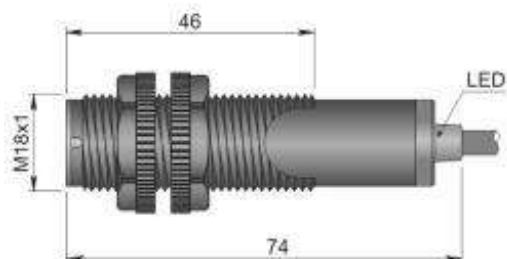
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





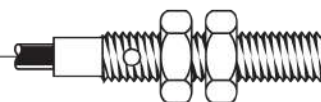
Part number: FT1000333 - Model: FT18EL-CAR PNP NO+NC LC5



Dimension in mm

TECHNICAL CHARACTERISTICS

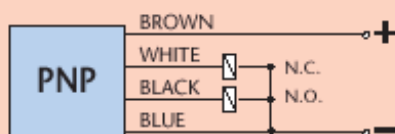
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC PNP
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 5 m
Cable type:	4x0.25 PVC
Weight:	170 g



Part number: FT1000333 - Model: FT18EL-CAR PNP NO+NC LC5

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

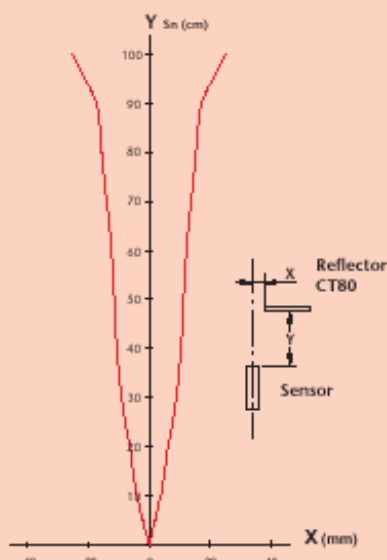
TYPES

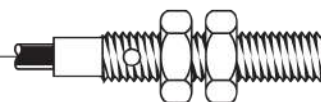
Polarized reflection with reflector (AR type)



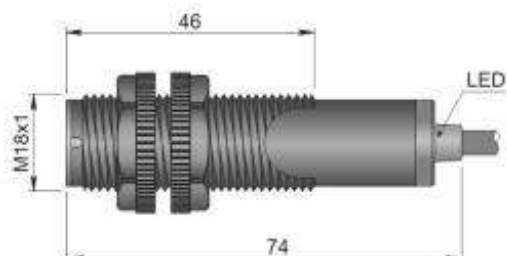
CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR





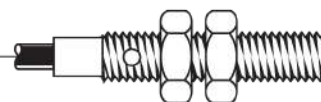
Part number: FT1000283 - Model: FT18EL-CAR NPN NO+NC



Dimension in mm

TECHNICAL CHARACTERISTICS

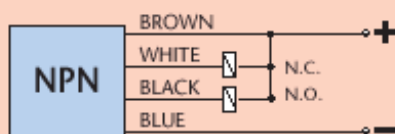
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Switching distance (cm):	400
Output type:	DC NPN
Function:	NO+NC
Actuation type:	Instantaneous
Light source:	Red
Power on delay:	< = 50 mSec
Max switching frequency:	200 Hz
Max output current:	200 mA
Absorption:	< = 30 mA @ 24 Vdc
Voltage drop:	< = 1.5 V
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:	Black Makrolon
Mechanical characteristics:	M18x1
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weight:	80 g



Part number: FT1000283 - Model: FT18EL-CAR NPN NO+NC

WIRING DIAGRAM

WIRING DIAGRAMS



INSTRUCTIONS FOR CORRECT INSTALLATION

TYPES

Polarized reflection with reflector (AR type)



CHARACTERISTIC CURVES OF FT18M - FT18 - FT18EL - FTQ TYPES

FT18M-CAR / FT18-AAR / FT18EL-CAR

