

MINIATURE 1040/1050

PHOTOELECTRIC SENSORS

ADVANTAGES

- ✓ Rugged metal housing
- ✓ Rugged sapphire-glass or glass sensing face, scratch & chemically resistant
- ✓ Shock & vibration resistant due to fully vacuum-potted electronics
- ✓ Accurate target detection due to cylindrical light beam

WIRING DIAGRAM

PNP or NPN, 1 output



OVERVIEW	1040 / 1050
Housing material	Stainless steel V2A
Emitter	IR LED 880 nm
Degree of protection	IP 67
Supply voltage range	10 ... 30 VDC
Ambient temperature range	0 ... +55 °C / 32 ... +131 °F
Output current	≤ 100 mA
Switching frequency	≤ 250 Hz

1040 SERIES



1040

PHOTOELECTRIC

HOUSING SIZE MM	Ø 4	Ø 4
OPERATING PRINCIPLE	DIFFUSE SENSOR	DIFFUSE SENSOR
SENSING RANGE MM	10	10

Inductive



Photoelectric

Safety

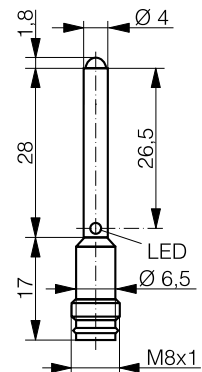
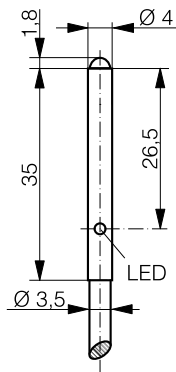
RFID

Connectivity

Accessories

Glossary

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DATA	IO-Link 2019	IO-Link 2019
Lens material	Sapphire glass	Sapphire glass
PNP Light-ON	LTK-1040-303-505	LTS-1040-303-505
NPN Light-ON	LTK-1040-301-505	LTS-1040-301-505
Other types available		

MINIATURE

HOUSING SIZE MM

Ø 4

Ø 4

OPERATING PRINCIPLE

DIFFUSE SENSOR

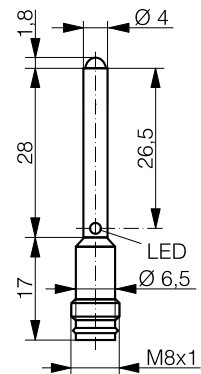
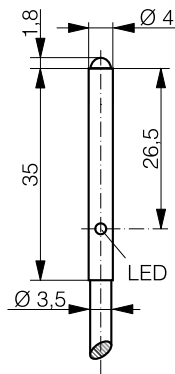
DIFFUSE SENSOR

SENSING RANGE MM

20

20

PHOTOELECTRIC



DATA

IO-Link 2019

IO-Link 2019

Lens material

Sapphire glass

Sapphire glass

Emitter

PNP Light-ON

LTK-1040-303-506

LTS-1040-303-506

NPN Light-ON

LTK-1040-301-506

LTS-1040-301-506

PNP Dark-ON

NPN Dark-ON

Other types available

1040 SERIES



1040

Ø 4	Ø 4	Ø 4
DIFFUSE SENSOR	DIFFUSE SENSOR	THROUGH-BEAM SENSOR
50	50	250

Inductive

Photoelectric

Safety

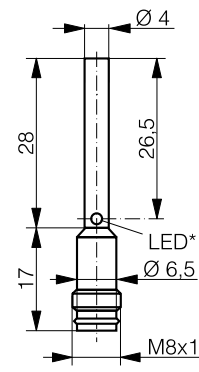
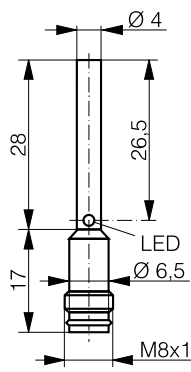
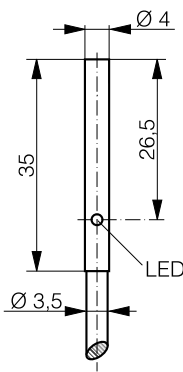
RFID

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* receiver only

IO-Link 2019	IO-Link 2019	IO-Link 2019
Glass	Glass	Glass
LTK-1040-303	LTS-1040-303	LLS-1040-200
LTK-1040-301	LTS-1040-301	LLS-1040-204 (receiver)
		LLS-1040-202 (receiver)
		Cable version

MINIATURE

HOUSING SIZE

M5

M5

OPERATING PRINCIPLE

DIFFUSE SENSOR

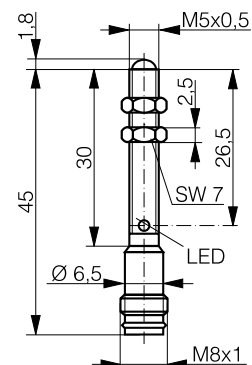
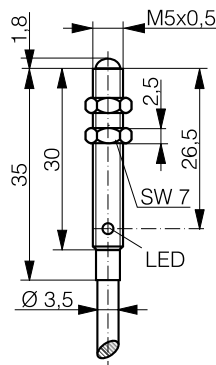
DIFFUSE SENSOR

SENSING RANGE MM

10

10

PHOTOELECTRIC



DATA

IO-Link 2019

IO-Link 2019

Lens material

Sapphire glass

Sapphire glass

PNP Light-ON

LTK-1050-303-505

LTS-1050-303-505

NPN Light-ON

LTK-1050-301-505

LTS-1050-301-505

Other types available

1050 SERIES



1050

M5	M5
DIFFUSE SENSOR	DIFFUSE SENSOR
20	20

Inductive



Photoelectric

Safety

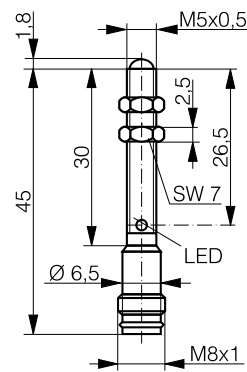
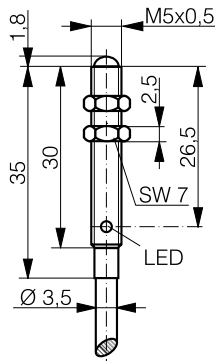
RFID

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IO-Link 2019
Sapphire glass
LTK-1050-303-506
LTK-1050-301-506

IO-Link 2019
Sapphire glass
LTS-1050-303-506
LTS-1050-301-506

MINIATURE

HOUSING SIZE

M5

M5

OPERATING PRINCIPLE

DIFFUSE SENSOR

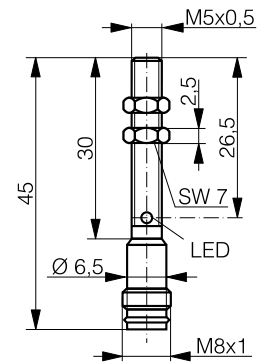
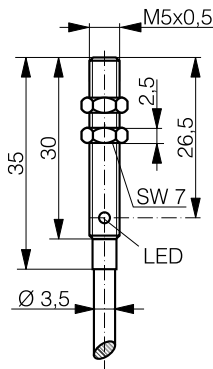
DIFFUSE SENSOR

SENSING RANGE MM

50

50

PHOTOELECTRIC



DATA

 IO-Link 2019

 IO-Link 2019

Lens material

Glass

Glass

Emitter

PNP Light-ON

LTK-1050-303

LTS-1050-303

NPN Light-ON

LTK-1050-301

LTS-1050-301

PNP Dark-ON

NPN Dark-ON

Other types available

MINIATURE 0507

PHOTOELECTRIC SENSORS

ADVANTAGES

- ✓ Rugged metal housing
- ✓ Rugged sapphire-glass or glass sensing face, scratch & chemically resistant
- ✓ Shock & vibration resistant due to fully vacuum-potted electronics

WIRING DIAGRAM

PNP or NPN, 1 output



OVERVIEW	0507
Housing material	Stainless steel V2A
Light source	IR LED 880 nm
Degree of protection	IP 67
Supply voltage range	10 ... 30 VDC
Ambient temperature range	0 ... +55°C / 32 ... +131 °F
Output current	≤ 100 mA
Switching frequency	≤ 250 Hz

0507 SERIES



0507

HOUSING SIZE MM	□ 5 X 7 X 40	□ 5 X 7 X 40	5 X 7 X 40
OPERATING PRINCIPLE	DIFFUSE SENSOR	DIFFUSE SENSOR	DIFFUSE SENSOR
SENSING RANGE MM	20	50	90

Inductive

PHOTOELECTRIC



Photoelectric

Safety

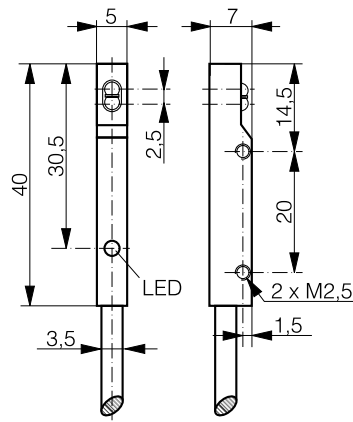
RFID

Connectivity

Accessories

Glossary

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DATA			
Lens material	Sapphire glass	Sapphire glass	Sapphire glass
PNP Light-ON	LTK-0507-303-501	LTK-0507-303	LTK-0507-303-502
NPN Light-ON	LTK-0507-301-501	LTK-0507-301	
Other types available			