



**Sn = 1 mm**

## WIRE

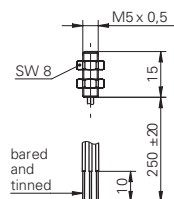
- Fully contained electronics
- 3 individual strands
- 15 mm housing length



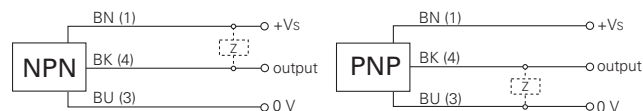
general data	
mounting type	shielded
nominal sensing distance Sn	1 mm
hysteresis	2 ... 20 % of Sr
electrical data	
switching frequency	< 5 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	12 mA
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes
mechanical data	
type	cylindrical threaded
material (sensing face)	LCP
housing material	stainless steel
dimension	5 mm
housing length	15 mm
connection types	wires
ambient conditions	
operating temperature	-25 ... +75 °C
protection class	IP 67

order reference	output circuit
IFRM 05N15A5/Q	NPN make function (NO)
IFRM 05N35A5/Q	NPN break function (NC)
IFRM 05P15A5/Q	PNP make function (NO)
IFRM 05P35A5/Q	PNP break function (NC)

## dimension drawing



## connection diagrams





Sn = 1 mm

W I R E

- Fully contained electronics
- Miniature connector M5 x 0,5
- Integrated LED-status display



**general data**

mounting type	shielded
nominal sensing distance Sn	1 mm
hysteresis	2 ... 20 % of Sr

**electrical data**

switching frequency	< 5 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	12 mA
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

**mechanical data**

type	cylindrical threaded
material (sensing face)	LCP
housing material	stainless steel
dimension	5 mm

**cable**

housing length	20 mm
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**flylead connector M8**

housing length	20 mm
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**connector M5**

housing length	24 mm
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**ambient conditions**

operating temperature	-25 ... +75 °C
protection class	IP 67

**accessories**

**connector M5**

connectors	ESG 05, ESW 05
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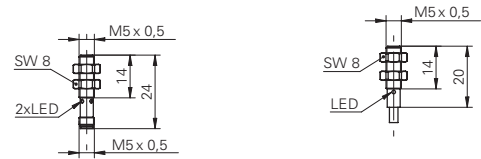
**flylead connector M8**

connectors	ESG 32S, ESW 31S
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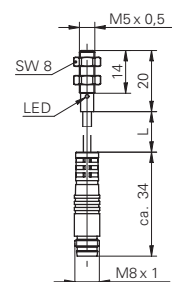
**remarks**

PUR cable	
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**dimension drawings**

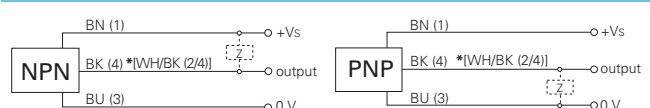


**flylead connector version**



standard cable length 200 mm

**connection diagrams**



\* .../S05L pin 2 & 4 electrically connected

order reference	connection types	output circuit	output indicator
IFRM 05N15A3/KS35PL	flylead connector M8	NPN make function (NO)	LED red
IFRM 05N15A3/L	cable	NPN make function (NO)	LED red
IFRM 05N15A3/S05L	connector M5	NPN make function (NO)	2 port LED red
IFRM 05N35A3/KS35PL	flylead connector M8	NPN break function (NC)	LED red
IFRM 05N35A3/L	cable	NPN break function (NC)	LED red
IFRM 05N35A3/S05L	connector M5	NPN break function (NC)	2 port LED red
IFRM 05P15A3/KS35PL	flylead connector M8	PNP make function (NO)	LED red
IFRM 05P15A3/L	cable	PNP make function (NO)	LED red
IFRM 05P15A3/S05L	connector M5	PNP make function (NO)	2 port LED red
IFRM 05P35A3/KS35PL	flylead connector M8	PNP break function (NC)	LED red
IFRM 05P35A3/L	cable	PNP break function (NC)	LED red
IFRM 05P35A3/S05L	connector M5	PNP break function (NC)	2 port LED red

IFRM 05 Sn = 1 mm Inductive sensors 3-wire digital output



Sn = 1 mm

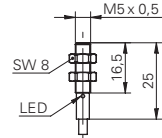
W I R E

- Fully contained electronics
- Standard cable version
- Integrated LED-status display

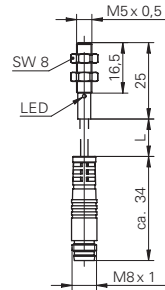


general data	
mounting type	shielded
nominal sensing distance Sn	1 mm
hysteresis	2 ... 20 % of Sr
output indicator	LED red
electrical data	
switching frequency	< 5 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	12 mA
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes
mechanical data	
type	cylindrical threaded
material (sensing face)	LCP
housing material	stainless steel
dimension	5 mm
housing length	25 mm
ambient conditions	
operating temperature	-25 ... +75 °C
protection class	IP 67
accessories	
connectors	ESG 32S, ESW 31S
remarks	
PUR cable	

dimension drawing

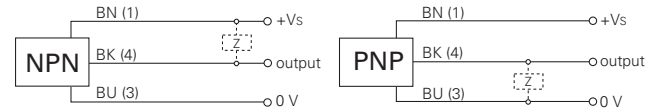


flylead connector version



standard cable length 200 mm

connection diagrams



order reference	connection types	output circuit
IFRM 05N15A1/KS35PL	flylead connector M8	NPN make function (NO)
IFRM 05N15A1/L	cable	NPN make function (NO)
IFRM 05N35A1/KS35PL	flylead connector M8	NPN break function (NC)
IFRM 05N35A1/L	cable	NPN break function (NC)
IFRM 05P15A1/KS35PL	flylead connector M8	PNP make function (NO)
IFRM 05P15A1/L	cable	PNP make function (NO)
IFRM 05P35A1/KS35PL	flylead connector M8	PNP break function (NC)
IFRM 05P35A1/L	cable	PNP break function (NC)



**Sn = 1 mm**

**W I R E**

- Robust metal housing
- M8 x 1 quick disconnect
- 3 port LED



### general data

mounting type	shielded
nominal sensing distance Sn	1 mm
hysteresis	2 ... 20 % of Sr
output indicator	3 port LED red

### electrical data

switching frequency	< 5 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	12 mA
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

### mechanical data

type	cylindrical threaded
material (sensing face)	LCP
housing material	stainless steel
dimension	5 mm
connection types	connector M8

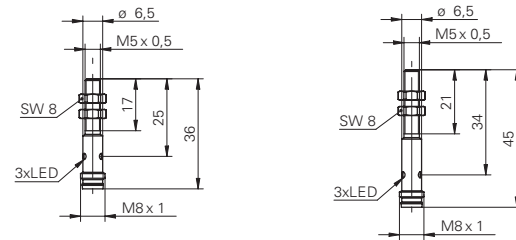
### ambient conditions

operating temperature	-25 ... +75 °C
protection class	IP 67

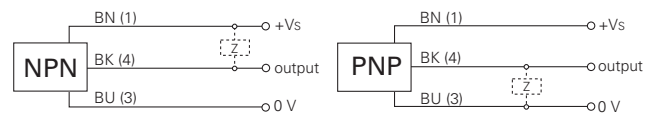
### accessories

connectors	ESG 32S, ESW 31S
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### dimension drawings



### connection diagrams



order reference	output circuit	housing length
IFRM 05N15A3/S35L	NPN make function (NO)	36 mm
IFRM 05N35A3/S35L	NPN break function (NC)	36 mm
IFRM 05P15A1/S35L	PNP make function (NO)	45 mm
IFRM 05P15A3/S35L	PNP make function (NO)	36 mm
IFRM 05P35A1/S35L	PNP break function (NC)	45 mm
IFRM 05P35A3/S35L	PNP break function (NC)	36 mm