



Sn = 1 mm

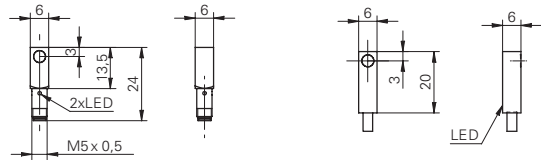
WIRE

- Miniature connector M5 x 0,5
- Smallest rectangular housing with connector

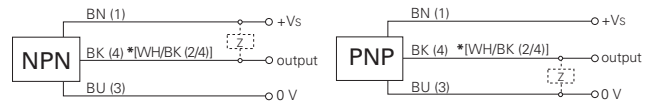


general data	
mounting type	shielded
nominal sensing distance Sn	1 mm
hysteresis	2 ... 20 % of Sr
electrical data	
switching frequency	< 5 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	12 mA
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes
mechanical data	
type	rectangular
material (sensing face)	LCP
housing material	brass nickel plated
dimension	6 mm
cable	
housing length	20 mm
connector M5	
housing length	24 mm
ambient conditions	
operating temperature	-25 ... +75 °C
protection class	IP 67
accessories	
connectors	ESG 05, ESW 05

dimension drawings



connection diagrams



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

order reference	connection types	output circuit	output indicator
IFFM 06N15A3/O1L	cable	NPN make function (NO)	LED red (backside)
IFFM 06N15A3/O1S05L	connector M5	NPN make function (NO)	2 port LED red
IFFM 06N35A3/O1L	cable	NPN break function (NC)	LED red (backside)
IFFM 06N35A3/O1S05L	connector M5	NPN break function (NC)	2 port LED red
IFFM 06P15A3/O1L	cable	PNP make function (NO)	LED red (backside)
IFFM 06P15A3/O1S05L	connector M5	PNP make function (NO)	2 port LED red
IFFM 06P35A3/O1L	cable	PNP break function (NC)	LED red (backside)
IFFM 06P35A3/O1S05L	connector M5	PNP break function (NC)	2 port LED red



**Sn = 1 mm**

**W I R E**

- Standard cable version
- High switching frequency



**general data**

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

**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	rectangular
material (sensing face)	LCP
housing material	brass nickel plated
dimension	6 mm
housing length	30 mm
connection types	cable

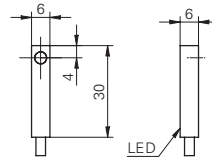
**ambient conditions**

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

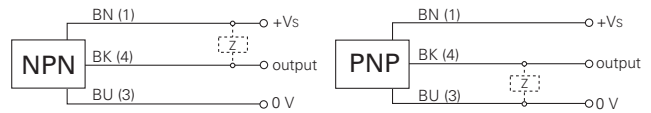
**order reference      output circuit**

<b>IFFM 06N15A1/O1L</b>	NPN make function (NO)
<b>IFFM 06N35A1/O1L</b>	NPN break function (NC)
<b>IFFM 06P15A1/O1L</b>	PNP make function (NO)
<b>IFFM 06P35A1/O1L</b>	PNP break function (NC)

**dimension drawing**



**connection diagrams**



IFFM 06 Sn = 1 mm

Inductive sensors 3-wire digital output