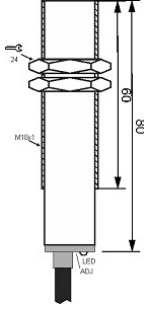
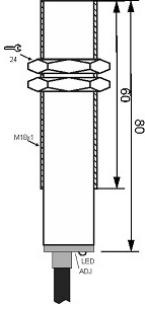
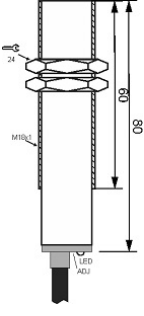
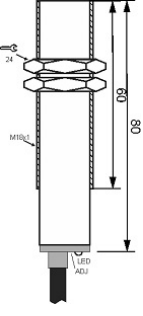
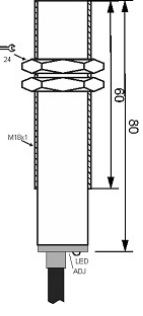
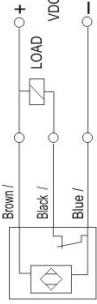
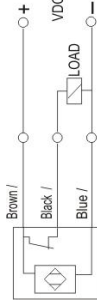
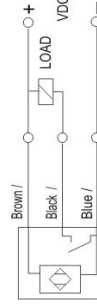
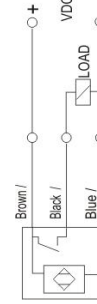
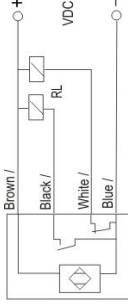
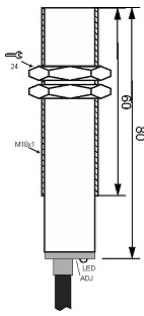
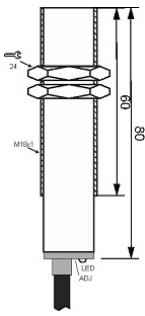
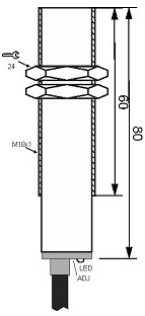
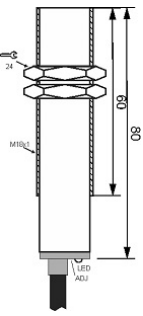
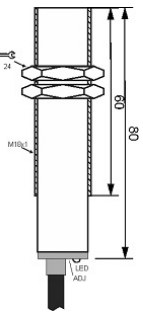
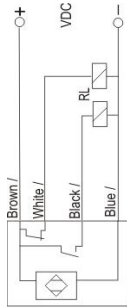
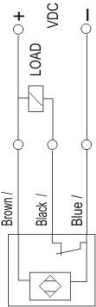
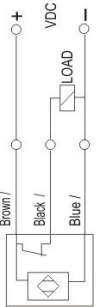
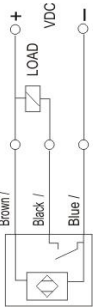
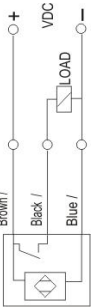


pre cabled diffuse optoelectronic sensors

housing					
	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT
code	OPS-320-CN-P18-DF	OPS-320-CP-P18-DF	OPS-320-ON-P18-DF	OPS-320-OP-P18-DF	OPS-420-N-P18-DF
number of wires	3	3	3	3	4
output stage	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR
output function	NC	NC	NO	NO	NO+NC
switching distance	20 cm	20 cm	20 cm	20 cm	20 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE4X0.25-1.5m
circuit					

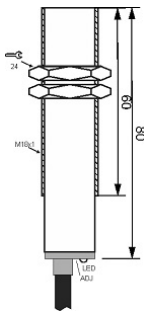
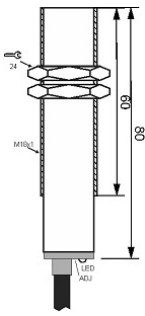
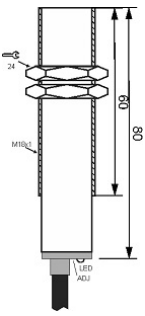
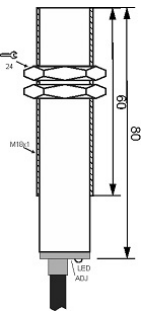
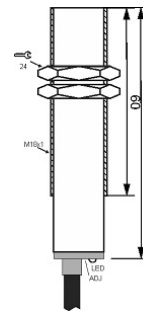
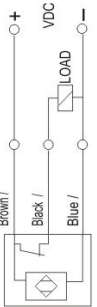
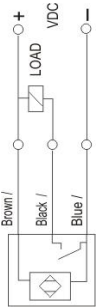
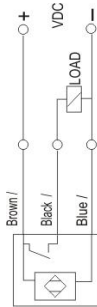

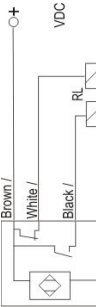
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housing					
	M18X1 PBT	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass
code	OPS-420-P-P18-DF	OPS-320-CN-18-DF	OPS-320-CP-18-DF	OPS-320-ON-18-DF	OPS-320-OP-18-DF
number of wires	4	3	3	3	3
output stage	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR
output function	NO+NC	NC	NC	NO	NO
switching distance	20 cm	20 cm	20 cm	20 cm	20 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

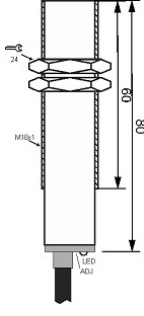
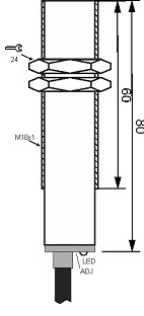
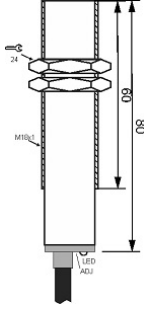
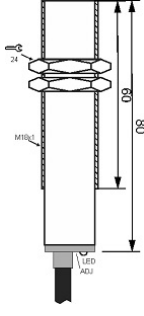
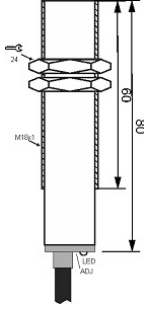
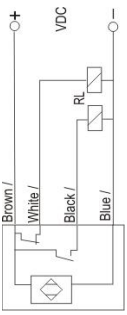
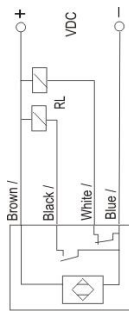
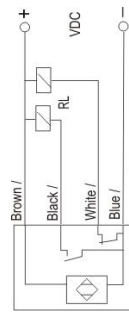
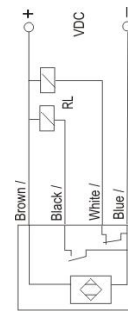
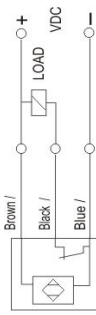
pre cabled diffuse optoelectronic sensors

housing					
	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass
code	OPS-340-CN-18-DF	OPS-340-CP-18-DF	OPS-340-ON-18-DF	OPS-340-OP-18-DF	OPS-350-CN-18-DF
number of wires	3	3	3	3	3
output stage	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR
output function	NC	NC	NO	NO	NC
switching distance	40 cm	40 cm	40 cm	40 cm	50 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-40~+60 °C	-40~+60 °C	-40~+60 °C	-40~+60 °C	-50~+60 °C
max output ferequence	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

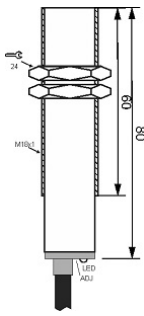
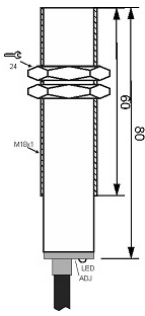
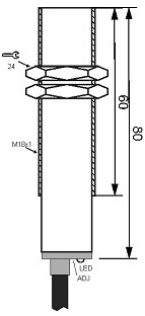
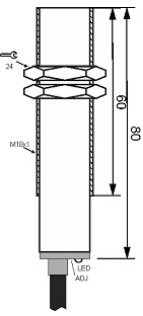
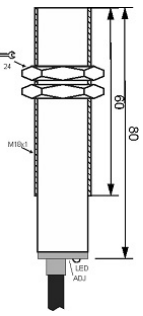
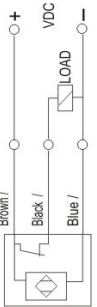
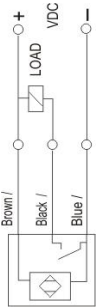
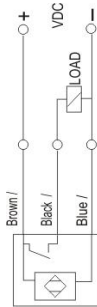
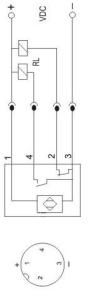
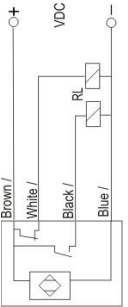
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housing					
	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass
code	OPS-350-CP-18-DF	OPS-350-ON-18-DF	OPS-350-OP-18-DF	OPS-420-P-18-DF	OPS-440-P-18-DF
number of wires	3	3	3	4	4
output stage	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	PNP TRANSISTOR	PNP TRANSISTOR
output function	NC	NO	NO	NO+NC	NO+NC
switching distance	50 cm	50 cm	50 cm	20 cm	40 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-50~+60 °C	-50~+60 °C	-50~+60 °C	-20~+60 °C	-40~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

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housing					
	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 Ni PLATED Brass	M18X1 PBT
code	OPS-450-P-18-DF	OPS-420-N-18-DF	OPS-440-N-18-DF	OPS-450-N-18-DF	OPS-340-CN-P18-DF
number of wires	4	4	4	4	3
output stage	PNP TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NC
switching distance	50 cm	20 cm	40 cm	50 cm	40 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-50~+60 °C	-20~+60 °C	-40~+60 °C	-50~+60 °C	-40~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.35-1.5m	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

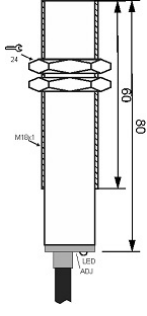
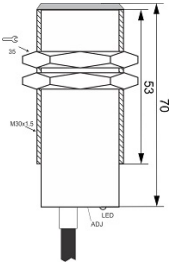
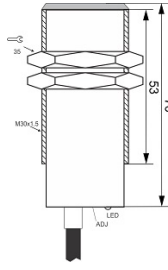
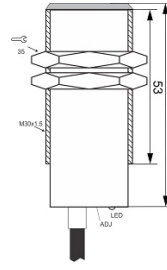
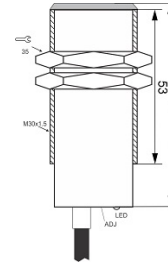
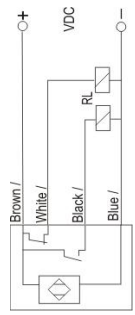
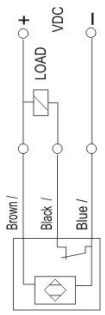
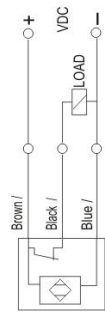
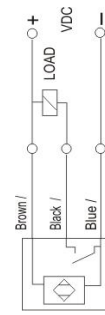
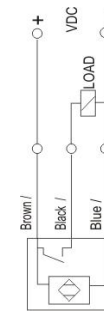
pre cabled diffuse optoelectronic sensors

housing					
	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT
code	OPS-340-CP-P18-DF	OPS-340-ON-P18-DF	OPS-340-OP-P18-DF	OPS-440-N-P18-DF	OPS-440-P-P18-DF
number of wires	3	3	3	4	4
output stage	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR
output function	NC	NO	NO	NO+NC	NO+NC
switching distance	40 cm	40 cm	40 cm	40 cm	40 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-40~+60 °C	-40~+60 °C	-40~+60 °C	-40~+60 °C	-40~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE4X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

pre cabled diffuse optoelectronic sensors

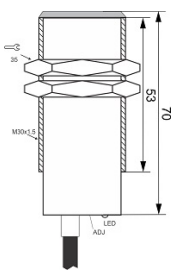
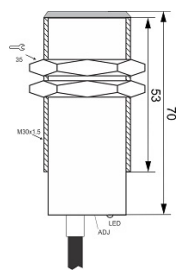
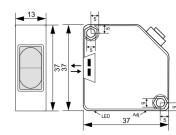
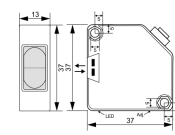
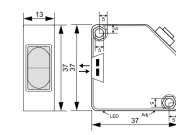
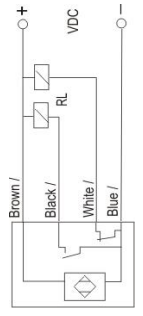
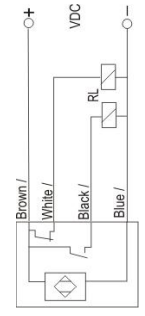
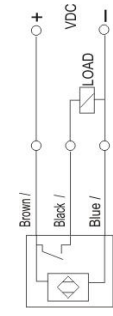
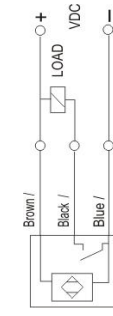
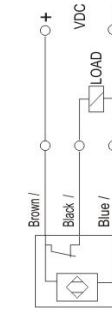
housing					
	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT	M18X1 PBT
code	OPS-350-CN-P18-DF	OPS-350-CP-P18-DF	OPS-350-ON-P18-DF	OPS-350-OP-P18-DF	OPS-450-N-P18-DF
number of wires	3	3	3	3	4
output stage	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR
output function	NC	NC	NO	NO	NO+NC
switching distance	50 cm	50 cm	50 cm	50 cm	50 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-50~+60 °C	-50~+60 °C	-50~+60 °C	-50~+60 °C	-50~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE4X0.25-1.5m
circuit					

pre cabled diffuse optoelectronic sensors

housing					
	M18X1 PBT	M30X1.5 Ni PLATED Brass	M30X1.5 Ni PLATED Brass	M30X1.5 Ni PLATED Brass	M30X1.5 Ni PLATED Brass
code	OPS-450-P-P18-DF	OPS-350-CN-30-DF	OPS-350-CP-30-DF	OPS-350-ON-30-DF	OPS-350-OP-30-DF
number of wires	4	3	3	3	3
output stage	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR
output function	NO+NC	NC	NC	NO	NO
switching distance	50 cm	50 cm	50 cm	50 cm	50 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-50~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					



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housing					
	M30X1.5 Ni PLATED Brass	M30X1.5 Ni PLATED Brass	REC. 50X50X18 ABS	REC. 50X50X18 ABS	REC. 50X50X18 ABS
code	OPS-450-N-30-DF	OPS-450-P-30-DF	OPS-330-OP-R18-DF	OPS-330-ON-R18-DF	OPS-330-CP-R18-DF
number of wires	4	4	3	3	3
output stage	NPN TRANSISTOR	PNP TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR
output function	NO+NC	NO+NC	NO	NO	NC
switching distance	50 cm	50 cm	30 cm	30 cm	30 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
max output frequency	100 Hz	100 Hz			
indicator led	yes	yes	1	1	1
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	yes	yes	1	1	1
short circuit protection	no	no	no	no	no
output	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					

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housing					
	REC. 50X50X18 ABS	REC. 50X75X30 PA or PP	REC. 50X75X30 PA or PP	REC. 50X75X30 PA or PP	REC. 50X75X30 PA or PP
code	OPS-330-CN-R18-DF	OPS-350-CN-R50-DF	OPS-350-CP-R50-DF	OPS-350-ON-R50-DF	OPS-350-OP-R50-DF
number of wires	3	3	3	3	3
output stage	NPN TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR	NPN TRANSISTOR	PNP TRANSISTOR
output function	NC	NC	NC	NO	NO
switching distance	30 cm	50 cm	50 cm	50 cm	50 cm
voltage range	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
max output frequency		100 Hz	100 Hz	100 Hz	100 Hz
indicator led	1	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
influence protection	IP66	IP66	IP66	IP66	IP66
revers voltage protection	1	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
output	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m	CABLE3X0.25-1.5m
circuit					