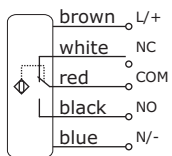
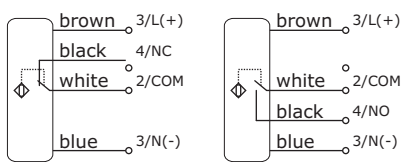
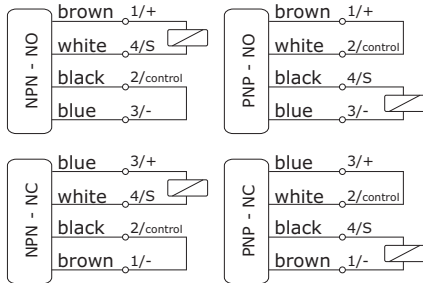
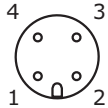


Output Schematics



Connector M12



Not to be
used for
Safety
Applications

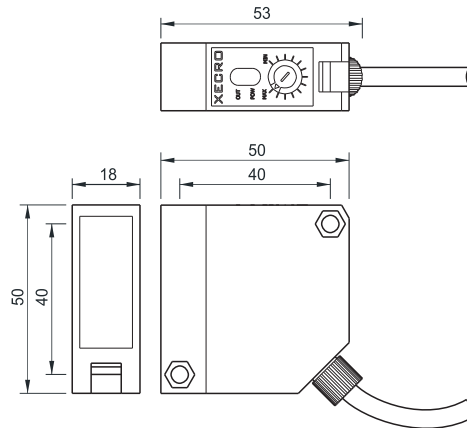
50x50



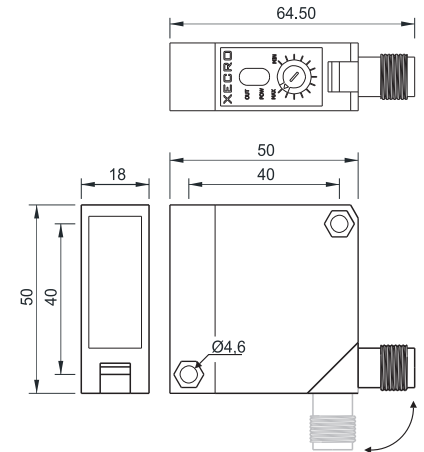
50x50



2000 mm



2000 mm



SPECIFICATIONS

Operating Distance
Output Function
Operating Voltage
Reverse Polarity Protection
Current Consumption
Current Load Capability
Short Circuit Protection
Voltage Drop
Switching Frequency
Response Time
Hysteresis
Operating Temperature
Ambient Light Immunity
Protection Class
Housing Material
Connection
Output Indicator

Article Code

PNP, NPN, NO, NC programmable
Relay SPST, NO
Relay SPST, NC
Relay SPDT, NO + NC
Transmitter

Mouting Bracket

Recommended Connecting Cable

Diffuse Reflective

300... 2000 mm
PNP, NPN, NO, NC
10... 30 VDC
built-in
< 37 mA
200 mA
built-in - self resetting
< 2 V @ 200 mA
500 Hz
< 1 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
PVC, 5-pole, 2m
Integrated

OD50-D2PNCO/A2P

included

-

Diffuse Reflective

300... 2000 mm
PNP, NPN, NO, NC
10... 30 VDC
built-in
< 37 mA
200 mA
built-in - self resetting
< 2 V @ 200 mA
500 Hz
< 1 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
Connector M12, 4-pole
Integrated

OD50-D2PNCO/M12

included

M12/4...

300... 2000 mm
Relay, NO | NC
24... 240 VDC/VAC
built-in
< 2.2 W
1A / 230VAC
built-in - self resetting
< 2 V @ 200 mA
10 Hz
< 25 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
Connector M12, 4-pole
Integrated

OD50-D2AO/M12

OD50-D2AC/M12

included

M12/4...

50x50

50x50

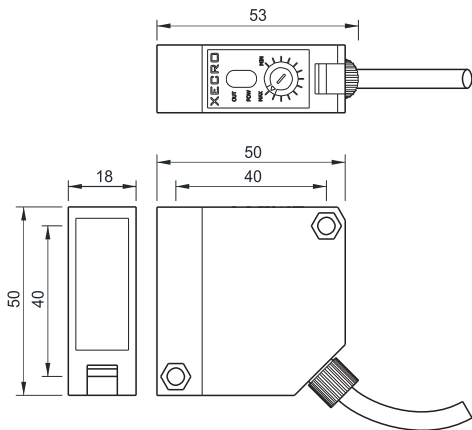
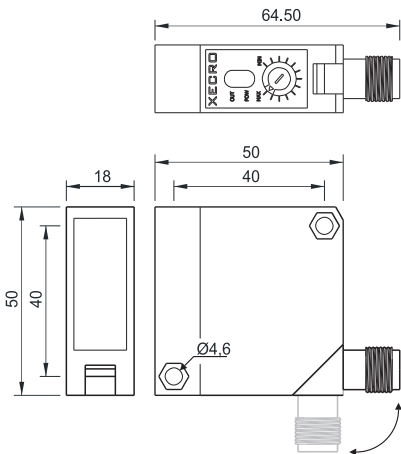
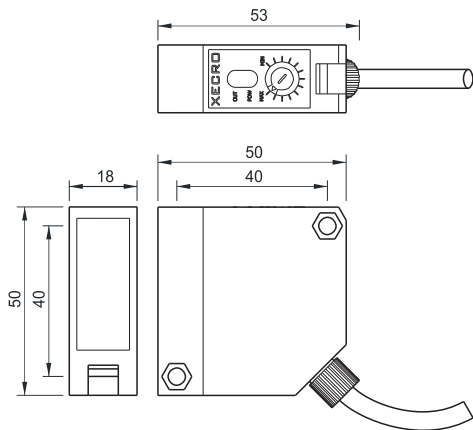
50x50



6000 mm

6000 mm

10000 m



Polarized Reflective

Polarized Reflective

Retro Reflective

6000 mm	6000 mm	6000 mm	6000 mm	10000 m	10000 m
PNP, NPN, NO, NC	Relay, NO + NC	PNP, NPN, NO, NC	Relay, NO NC	PNP, NPN, NO, NC	Relay, NO + NC
10... 30 VDC	24... 240 VDC/VAC	10... 30 VDC	24... 240 VDC/VAC	10... 30 VDC	24... 240 VDC/VAC
built-in	built-in	built-in	built-in	built-in	built-in
< 37 mA	< 2.2 W	< 37 mA	< 2.2 W	< 37 mA	< 2.2 W
200 mA	1A / 230VAC	200 mA	1A / 230VAC	200 mA	1A / 230VAC
built-in - self resetting	-	built-in - self resetting	-	built-in - self resetting	-
< 2 V @ 200 mA	-	< 2 V @ 200 mA	-	< 2 V @ 200 mA	-
500 Hz	10 Hz	500 Hz	10 Hz	500 Hz	10 Hz
< 1 ms	< 25 ms	< 1 ms	< 25 ms	< 1 ms	< 25 ms
~10%	~10%	~10%	~10%	~10%	~10%
-25... 55 °C	-25... 55 °C	-25... 55 °C	-25... 55 °C	-25... 55 °C	-25... 55 °C
10.000 lux	10.000 lux	10.000 lux	10.000 lux	10.000 lux	10.000 lux
IP65	IP65	IP65	IP65	IP65	IP65
ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA
PVC, 5-pole, 2m	PVC, 5-pole, 2m	Connector M12, 4-pole	Connector M12, 4-pole	PVC, 5-pole, 2m	PVC, 5-pole, 2m
Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

OD50-P6PNCO/A2P

OD50-P6PNCO/M12

OD50-P6AO/M12
OD50-P6AC/M12

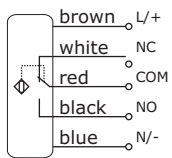
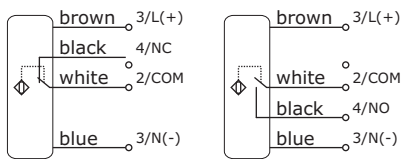
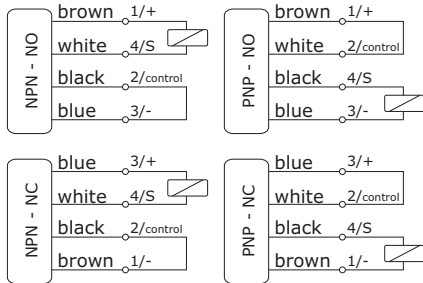
OD50-N10PNCO/A2P

OD50-P6ACO/A2P

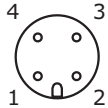
OD50-N10ACO/A2P

included	included	included	included	included	included
-	-	M12/4...	M12/4...	-	-

Output Schematics



Connector M12



Not to be
used for
Safety
Applications

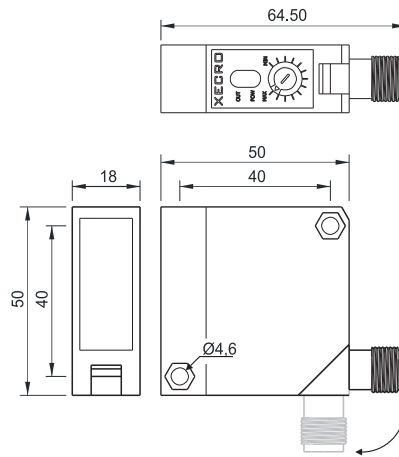
50x50



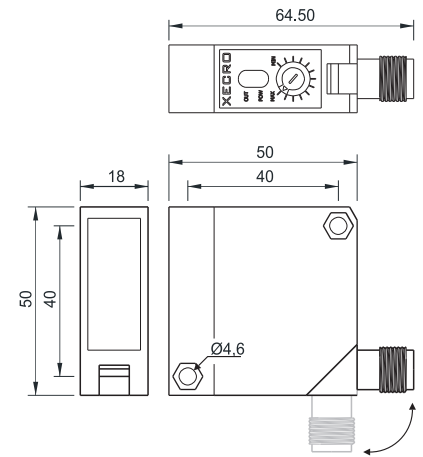
50x50



10000 m



18000 mm



SPECIFICATIONS

Operating Distance
Output Function
Operating Voltage
Reverse Polarity Protection
Current Consumption
Current Load Capability
Short Circuit Protection
Voltage Drop
Switching Frequency
Response Time
Hysteresis
Operating Temperature
Ambient Light Immunity
Protection Class
Housing Material
Connection
Output Indicator

Article Code

PNP, NPN, NO, NC programmable
Relay SPST, NO
Relay SPST, NC
Relay SPDT, NO + NC
Transmitter

Mouting Bracket

Recommended Connecting Cable

Retro Reflective

10000 m
PNP, NPN, NO, NC
10... 30 VDC
built-in
< 37 mA
200 mA
built-in - self resetting
< 2 V @ 200 mA
500 Hz
< 1 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
Connector M12, 4-pole
Integrated

OD50-N10PNCO/M12

included

M12/4...

10000 m
Relay, NO | NC
24... 240 VDC/VAC
built-in
< 2.2 W
1A / 230VAC
-
10 Hz
< 25 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
Connector M12, 4-pole
Integrated

OD50-N10AO/M12
OD50-N10AC/M12

included

M12/4...

Through Beam

18000 mm
PNP, NPN, NO, NC
10... 30 VDC
built-in
< 37 mA
200 mA
built-in - self resetting
< 2 V @ 200 mA
500 Hz
< 1 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
PVC, 5-pole, 2m
Integrated

OD50-R18PNCO/A2P

OD50-T18D/M12
included

M12/4...

18000 mm
Relay, NO | NC
24... 240 VDC/VAC
built-in
< 2.2 W
1A / 230VAC
-
10 Hz
< 25 ms
~10%
-25... 55 °C
10.000 lux
IP65
ABS, Lens PMMA
PVC, 5-pole, 2m
Integrated

OD50-R18ACO/M12

OD50-T18A/M12
included

M12/4...

MR82

MR80

MQ51

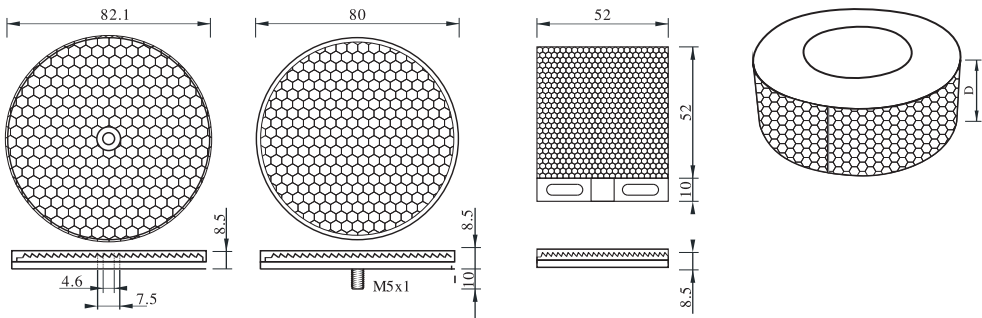
PTR

150,00%

100,00%

90,00%

70,00%



Specifications

High Performance

Standard Round

Standard Cubic

Performance Tape

Distance with Reference to Product Codes

150,00%

100,00%

90,00%

70,00%

Mounting

Thru Hole

M5x1

Thru Hole

Self-Adhesive

One Reel

45.7 m | 150 ft

Cut Tape

4.57 m | 15 ft

Cover Material

PMMA

PMMA

PMMA

PMMA

Back Cover Material

PMMA

PMMA

PMMA

PMMA

Reflector

MR82

MR80

MQ51

Complete Reel, 25 mm wide

Cut Tape 25 mm wide

Complete Reel, 50 mm wide

Cut Tape 50 mm wide

Complete Reel, 100 mm wide

Cut Tape 100 mm wide

PTR25-W

PTR25-W/50

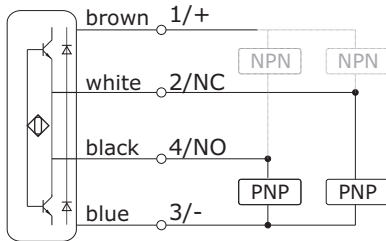
PTR50-W

PTR50-W/50

PTR100-W

PTR100-W/50

Output Schematics



31x20



700 mm

31x20



700 mm

31x20



1800 mm

31x20

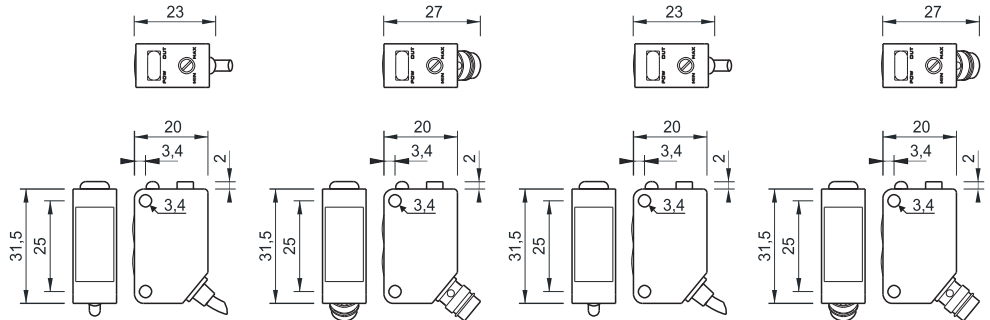


1800 mm

Connector M8



Not to be
used for
Safety
Applications



SPECIFICATIONS

	Diffuse Reflective	Diffuse Reflective	Polarized Reflective	Polarized Reflective
Operating Distance	10... 700 mm	10... 700 mm	100... 1800 mm	100... 1800 mm
Output Function	NO + NC	NO + NC	NO + NC	NO + NC
Operating Voltage	10... 30 VDC, 4-wire	10... 30 VDC, 4-wire	10... 30 VDC, 4-wire	10... 30 VDC, 4-wire
Reverse Polarity Protection	built-in	built-in	built-in	built-in
Current Consumption	< 37 mA	< 37 mA	< 37 mA	< 37 mA
Current Load Capability	100 mA, self-resetting	100 mA, self-resetting	100 mA, self-resetting	100 mA, self-resetting
Short Circuit Protection	built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - self resetting
Voltage Drop	< 2 V @ 100 mA	< 2 V @ 100 mA	< 2 V @ 100 mA	< 2 V @ 100 mA
Switching Frequency	500 Hz	500 Hz	500 Hz	500 Hz
Response Time	< 1 ms	< 1 ms	< 1 ms	< 1 ms
Hysteresis	~13%	~13%	~13%	~13%
Operating Temperature	-25... 55 °C	-25... 55 °C	-25... 55 °C	-25... 55 °C
Ambient Light Immunity	6.000 lux	6.000 lux	6.000 lux	6.000 lux
Protection Class	IP67	IP67	IP67	IP67
Housing Material	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA
Connection	PVC, 4-pole	Connector M8, 4-pole	PVC, 4-pole	Connector M8, 4-pole
Output Indicator	Integrated	Integrated	Integrated	Integrated
Article Code				
PNP, NO + NC	OD31-D07PCO/A2P	OD31-D07PCO/M8	OD31-P2PCO/A2P	OD31-P2PCO/M8
NPN, NO + NC	OD31-D07NCO/A2P	OD31-D07NCO/M8	OD31-P2PNO/A2P	OD31-P2PNO/M8
Transmitter				

Mouting Bracket

included

included

included

included

Recommended Connecting Cable

-

M8/4...

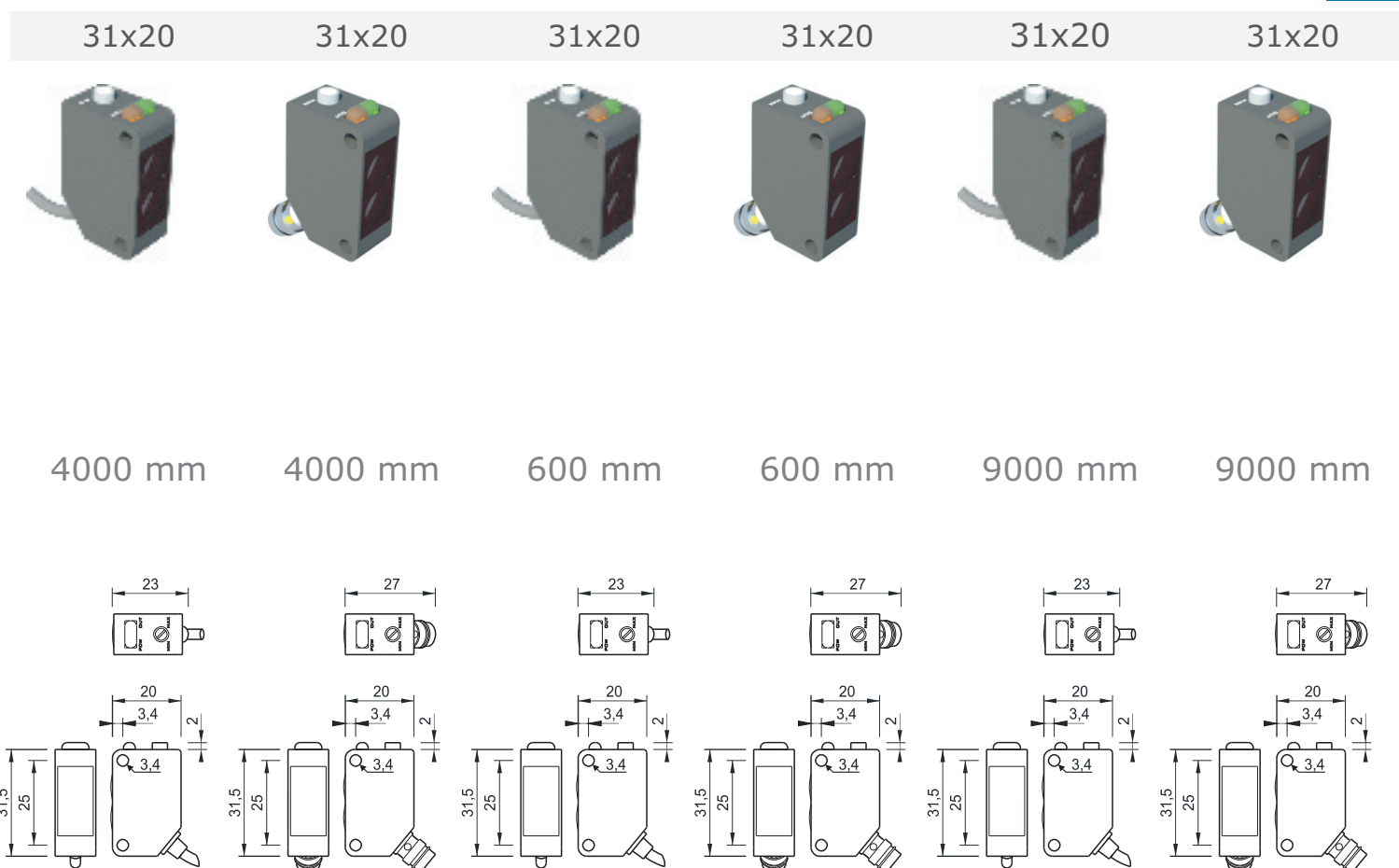
-

M8/4...

Photoelectric Sensors

Miniature

OPTICAL



Retro Reflective	Retro Reflective	Translucent Objects	Translucent Objects	Through Beam	Through Beam
150... 4000 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA PVC, 4-pole Integrated	150... 4000 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA Connector M8, 4-pole Integrated	600 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA PVC, 4-pole Integrated	600 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA Connector M8, 4-pole Integrated	9000 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA PVC, 4-pole Integrated	9000 mm NO + NC 10... 30 VDC, 4-wire built-in < 37 mA 100 mA, self-resetting built-in - self resetting < 2 V @ 100 mA 500 Hz < 1 ms ~13% -25... 55 °C 6.000 lux IP67 ABS, Lens PMMA Connector M8, 4-pole Integrated
OD31-N4PCO/A2P OD31-N4PNO/A2P	OD31-N4PCO/M8 OD31-N4PNO/M8	OD31-L06PCO/A2P OD31-L06PNO/A2P	OD31-L06PCO/M8 OD31-L06PNO/M8	OD31-R9PCO/A2P OD31-R9PNO/A2P OD31-T9D/A2P	OD31-R9PCO/M8 OD31-R9PNO/M8 OD31-T9D/M8
included	included	included	included	included	included
-	M8/4...	-	M8/4...	-	M8/4...