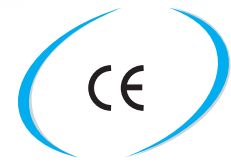


RC SERIES



- Applications.....I-01...I-01
- Sensors Type.....I-02...I-04
- Sensing Characteristics(Typical).....I-05...I-05
- Dimensions.....I-06...I-07



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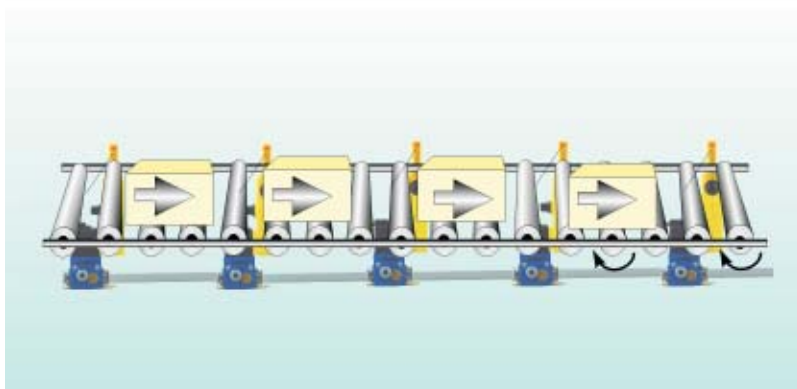
SENSORS SELECTION GUIDE

RC SERIES





Automatic Interference Prevention Function

Accumulating conveyor system with no additional control elements-thanks to the integrated logics and valve unit. Peak throughput, irregular material flow and problems in material feed are detected with the RC photoelectric proximity switch-roller conveyors can, therefore, be used as accumulating roller conveyors.





Only the scanned objects passing the sensor at a defined distance trigger the RC. Personnel or objects within the scanning plane but outside the detection range are ignored.

Range	550 mm	
Series	RC-D0550P-CY9Q4UE-BS	RC-D0550P-DY9P4UE-BS
		
PNP Infrared light		
PNP Red Light	YES	YES
Supply voltage	18...30 V DC	18...30 V DC
Voltage drop	< 2.5 V	< 2.5 V
PNP Switching Output/Switching	400 mA	400 mA
Switching Outputs	1	1
Overload Protection	YES	YES
Protected against polarity reversal	YES	YES
Short-circuit protected	YES	YES
Response Time	5 ms	5 ms
Frequency of operating cycles	100 Hz	100 Hz
Switching hysteresis	<15 %	<15 %
Potentiometer min	220...270 mm	220...270 mm
Potentiometer center	320...400 mm	320...400 mm
Potentiometer max	550...630 mm	550...630 mm
Max. Ambient Light	10000 Lux	10000 Lux
Protective Insulationr	Up to 50 v	
Ambient temperature range	-25...60° C	-15...50° C
Degree of protection	IP 65	IP 65
Service life (T = +25° C)	100000 h	100000 h
Opening Angle	5°	5°
Power Consumption Sensor	35 mA	35 mA
Temperature Drift	10 %	10 %
Housing material	Plastic	Plastic
Connection (Note 1)	M12, 4pin Connector	M12, 4pin Connector
Weight	40 g	79 g

PHOTOELECTRIC

SENSORS TYPE

Range	550 mm	
Series	RC-D0550P-DY9Q4UE-BS	RC-D0550P-CY9P4UE-BS
		
PNP Infrared light	YES	YES
PNP Red Light		
Supply voltage	18...30 V DC	18...30 V DC
Voltage drop	< 2.5 V	< 2.5 V
PNP Switching Output/Switching	400 mA	400 mA
Switching Outputs	1	1
Overload Protection	YES	YES
Protected against polarity reversal	YES	YES
Short-circuit protected	YES	YES
Response Time	5 ms	5 ms
Frequency of operating cycles	100 Hz	100 Hz
Switching hysteresis	<15 %	<15 %
Potentiometer min	220...270 mm	220...270 mm
Potentiometer center	320...400 mm	320...400 mm
Potentiometer max	550...630 mm	550...630 mm
Max. Ambient Light	10000 Lux	10000 Lux
Protective Insulationr		Up to 50 v
Ambient temperature range	-15...50° C	-25...60° C
Degree of protection	IP 65	IP 65
Service life (T = +25° C)	100000 h	100000 h
Opening Angle	5°	5°
Power Consumption Sensor	35 mA	35 mA
Temperature Drift	10 %	10 %
Housing material	Plastic	Plastic
Connection (Note 1)	M12, 4pin Connector	M12, 4pin Connector
Weight	79 g	40 g

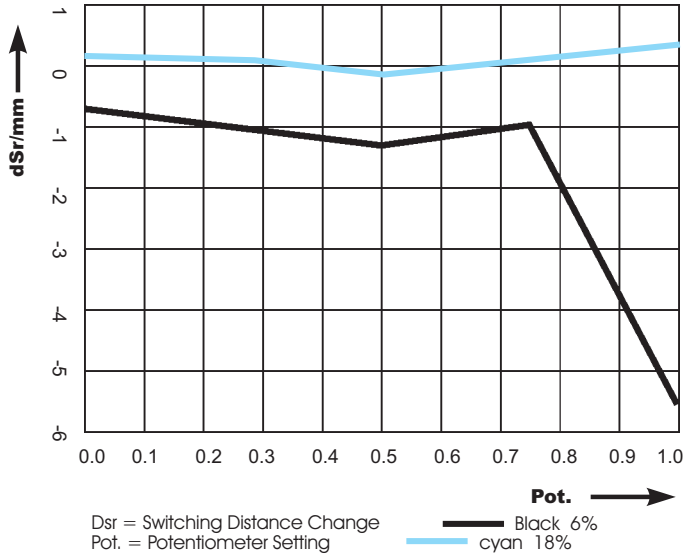
Range	6500 mm	
Series	RC-L6500P-CY6Q4UE	RC-L6500P-DY6P4UE
		
PNP Infrared light		
PNP Red Light	YES	YES
Supply voltage	18...30 V DC	18...30 V DC
Voltage drop	< 2.5 V	< 2.5 V
PNP Switching Output/Switching	400 mA	400 mA
Switching Outputs	1	1
Overload Protection	YES	YES
Protected against polarity reversal	YES	YES
Short-circuit protected	YES	YES
Response Time	5 ms	5 ms
Frequency of operating cycles	100 Hz	100 Hz
Switching hysteresis	<15 %	<15 %
Reference Reflector	RQ 100BA	RQ 100BA
max. Distance on Reflector	100 mm	100 mm
Valve Control		YES
Max. Ambient Light	10000 Lux	10000 Lux
Protective Insulationr	Up to 50 v	
Ambient temperature range	-25...60° C	-15...50° C
Degree of protection	IP 65	IP 65
Service life (T = +25° C)	100000 h	100000 h
Opening Angle	5°	5°
Power Consumption Sensor	35 mA	35 mA
Temperature Drift	10 %	10 %
Housing material	Plastic	Plastic
Connection (Note 1)	M12, 4pin Connector	M12, 4pin Connector
Weight	40 g	79 g

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SENSING CHARACTERISTICS (TYPICAL)

RC SERIES

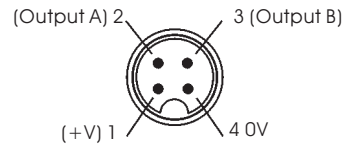
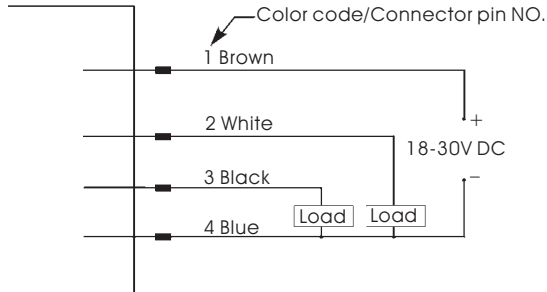
Sensing Range Diagram



CONNECTION DIAGRAM

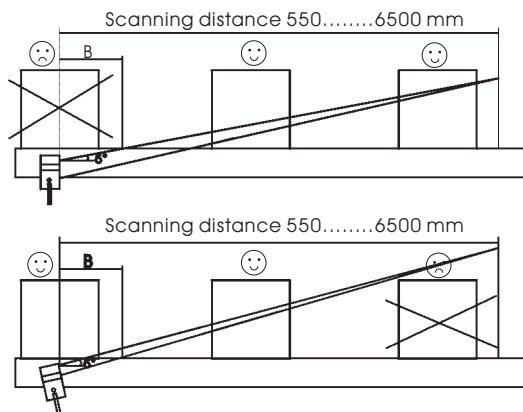
I/O circuit diagram

Connector pin position

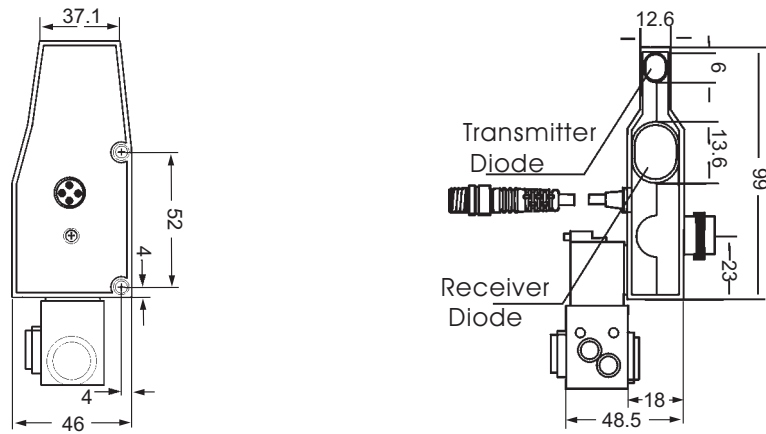


Symbol D1 : Reverse polarity protection diode
ZD1 : Surge adsorption zener diode
T1 : PNP output transistor

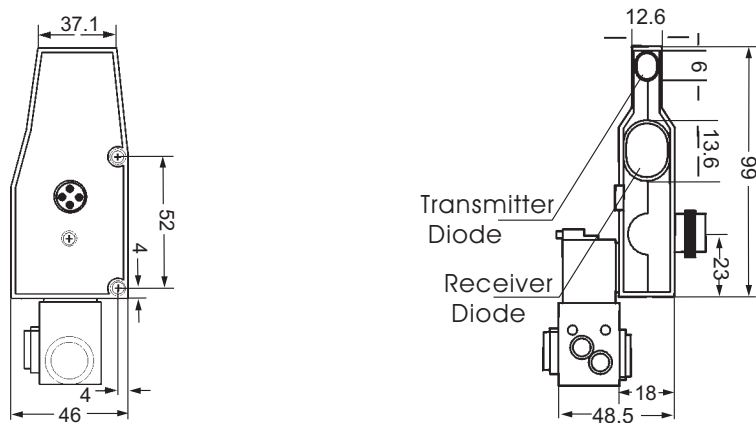
Scanning distance and Opening angle



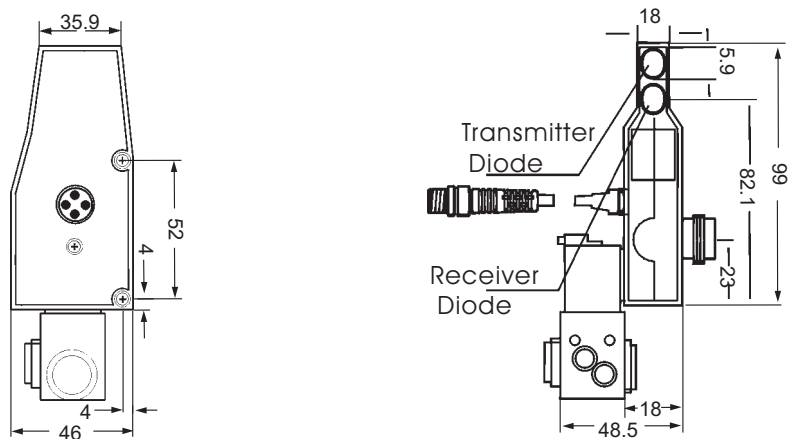
RC-D0550P-DY9P4UE-BS



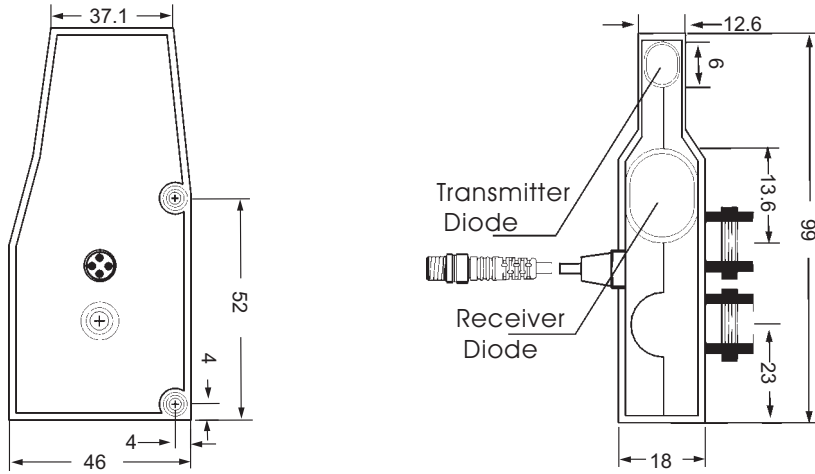
RC-D0550P-DY9Q4UE-BS



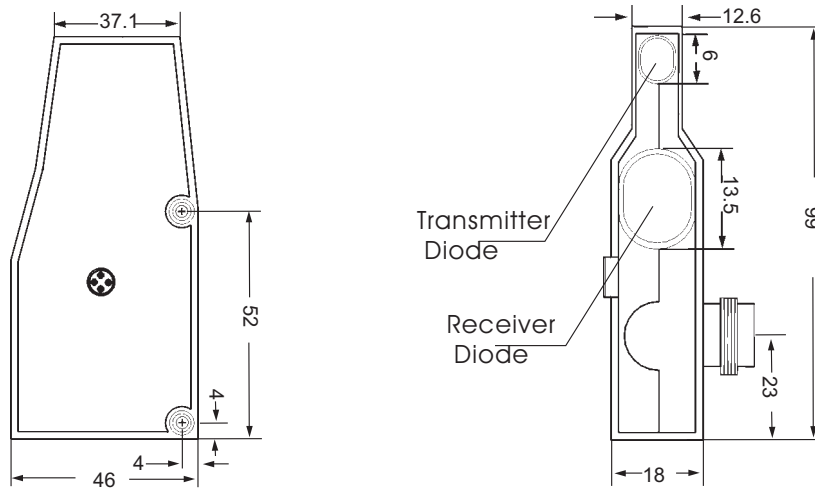
RC-L6500P-DY6P4UE



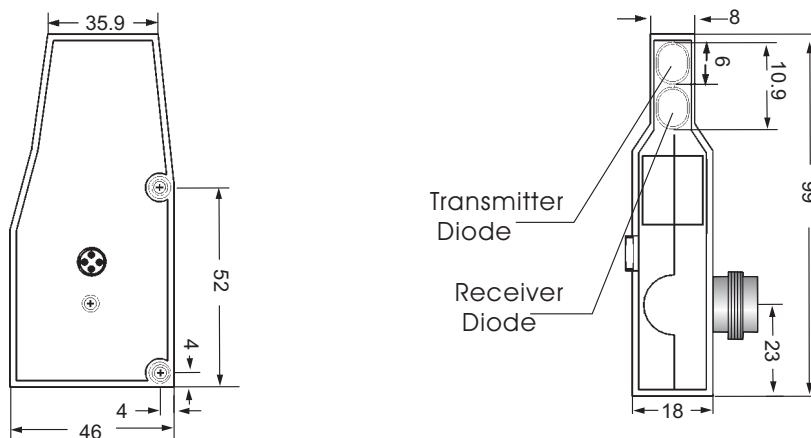
RC-D0550P-CY9P4UE-BS



RC-D0550P-CY9Q4UE-BS



RC-L6500P-CY6Q4UE



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RP31-T010MN-EY9C2L2	A-03	RP35-T2000N-CY6U3C2	C-03
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RP31-L3000N-CY6C3U2-PF	A-03	RP35-T0500N-CY5C3U2	C-03
RP31-L0500N-CY6C3U2-L	A-03	RP35-L3000N-CY6C3U2-FP	C-03
RP31-D0800N-CY9C3U2	A-03	RP35-L0500N-CY6C3U2-L	C-03
RP31-D0300N-CY9C3U2	A-03	RP35-L5000N-CY9C3U2	C-03
RP31-T010MP-EY9C2L2	A-03	RP35-D0700N-CY9C3U2	C-03
RP31-T010MP-CY9C3U2	A-03	RP35-D0300N-CY9C3U2	C-03
RP31-L3000P-CY6C3U2-PF	A-03	RP35-D0200N-CY6C3U2	C-03
RP31-L0500P-CY6C3U2-L	A-03	RP35-T5000D-EY9C2L2	C-03
RP31-D0800P-CY9C3U2	A-03	RP35-T5000D-CY9C2U2	C-03
RP31-D0300P-CY9C3U2	A-03	RP35-L2000D-CY6C2U2-PF	C-03
RP31-T010MN-EY9P4LP	A-03	RP35-D0300D-CY9C2U2	C-03
RP31-T010MN-CY9P4UP	A-03	RP35A-T010MN-EY9C2L2	C-03
RP31-L3000N-CY6P4UP-PF	A-03	RP35A-T010MN-CY9C5U2	C-03
RP31-L0500N-CY6P4UP-L	A-03	RP35A-L3000N-CY6C5U2-PF	C-03
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RP31-T010MP-EY9P4LP	A-03	RP35B-T5000D-EY9C2L2	C-03
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RP31-D0300P-CY9P4UP	A-03	RP35B-T5000N-CY9C3U5	C-03
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RP31-D0300N-CY9Q4UP	A-03	RP35-T2000N-CY6P4UP	C-04
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RP31-D0300P-CY9Q4UP	A-03	RP35-D0700N-CY9P4UP	C-04
RP34-L5000N-CY9C4U2	B-02	RP35-D0300N-CY9P4UP	C-04
RP34-L5000P-CY9C4U2	B-02	RP35-D0200N-CY6P4UP	C-04
RP34-L5000N-CY9P4UP	B-02	RP35-T5000D-EY9P4LP	C-04
RP34-L5000P-CY9P4UP	B-02	RP35-T5000D-CY9P4UP	C-04
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RP34-L5000P-CY9Q4UP	B-02	RP35-D0300D-CY9P4UP	C-04
RP34-D0100N-CY9C4U2	B-02	RP35A-T010MN-EY9P4LP	C-04
RP34-D0100P-CY9C4U2	B-02	RP35A-T010MN-CY9P5UP	C-04
RP34-D0100N-CY9P4UP	B-02	RP35A-L3000N-CY6P5UP-PF	C-04
RP34-D0100P-CY9P4UP	B-02	RP35A-L0500N-CY6P5UP-L	C-04
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RP34-D0100P-CY9Q4UP	B-02	RP35-T010MD-EY9Q4LP	C-05
RP34-D0300N-CY6C4U2	B-02	RP35-T010MN-CY9Q4UP	C-05
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RP34-D0300N-CY6Q4UP	B-02	RP35-T2000N-CY6Q4UP	C-05
RP34-D0300P-CY6Q4UP	B-02	RP35-T0500N-EY5Q4UP	C-05
RP35-T010MD-EY9C2L2	C-03	RP35-T0500N-CY5Q4UP	C-05
RP35-T010MN-CY9C3U2	C-03	RP35-L3000N-CY6Q4LP-FP	C-05
RP35-T050MD-EY9C2L2	C-03	RP35-L0500N-CY6Q4UP-L	C-05
RP35-T050MN-CY9C3U2	C-03	RP35-L5000N-CY9Q4UP	C-05
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RP35-T5000D-EY9Q4LP	C-05	RP80-T350MP-CY9C4U2	E-01
RP35-T5000D-CY9Q4UP	C-05	RP80-T350MD-EY9Q4LE	E-01
RP35-L2000D-CY6Q4UP-PF	C-05	RP80-T350MN-CY9Q4UE	E-01
RP35-D0300D-CY9Q4UP	C-05	RP80-T350MP-CY9Q4UE	E-01
RP35A-T010MN-EY9Q4LP	C-05	RP80-T350MD-EY9Q4LN	E-01
RP35A-T010MN-CY9Q5UP	C-05	RP80-T350MN-CY9Q4UN	E-01
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RP50-T010MR-DY6C5L2	D-02	RP80-T050MN-CY9C4U2	E-01
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RP50-T010MR-DY6C5L5	D-02	RP80-T050MN-CY9Q4UE	E-01
RP50-T010MD-EY6Q4LE	D-02	RP80-T050MP-CY9Q4UE	E-01
RP50-T010MR-LY6Q4LE	D-02	RP80-T050MD-EY9Q4LN	E-02
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RP50-T010MD-EY6P4LE	D-02	RP80-T050MP-CY9Q4UN	E-02
RP50-T010MR-LY6P4LE	D-02	RP80-T050MD-EY9P4LE	E-02
RP50-T010MR-DY6P4LE	D-02	RP80-T050MN-CY9P4UE	E-02
RP50-T030MD-EY9C2L2	D-02	RP80-T050MP-CY9P4UE	E-02
RP50-T030MR-LY9C5L2	D-02	RP80-D3000N-CY9C4U2/S	E-02
RP50-T030MR-DY9C5L2	D-02	RP80-D3000P-CY9C4U2/S	E-02
RP50-T030MD-EY9C2L5	D-02	RP80-D3000N-CY9Q4UE/S	E-02
RP50-T030MR-LY9C5L5	D-02	RP80-D3000P-CY9Q4UE/S	E-02
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RP50-T030MR-LY9Q4LE	D-03	RP80-D3000N-CY9P4UE/S	E-02
RP50-T030MR-DY9Q4LE	D-03	RP80-D3000P-CY9P4UE/S	E-02
RP50-T030MD-EY9P4LE	D-03	RP80-D3000N-CY9C4U2/B	E-03
RP50-T030MR-LY9P4LE	D-03	RP80-D3000P-CY9C4U2/B	E-03
RP50-T030MR-DY9P4LE	D-03	RP80-D3000N-CY9Q4UE/B	E-03
RP50-L7000R-LY9C5L2	D-03	RP80-D3000P-CY9Q4UE/B	E-03
RP50-L7000R-DY9C5L2	D-03	RP80-D3000N-CY9Q4UN/B	E-03
RP50-L7000R-LY9C5L5	D-03	RP80-D3000P-CY9Q4UN/B	E-03
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RP50-L7000R-LY9Q4LE	D-03	RP80-D3000P-CY9P4UE/B	E-03
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RP50-L7000R-DY9P4LE	D-03	RP80-D3000N-CY9Q4UE/F	E-03
RP50-L5000R-LY6C5L2-PF	D-04	RP80-D3000P-CY9Q4UE/F	E-03
RP50-L5000R-DY6C5L2-PF	D-04	RP80-D3000N-CY9Q4UN/F	E-04
RP50-L5000R-LY6C5L5-PF	D-04	RP80-D3000P-CY9P4UN/F	E-04
RP50-L5000R-DY6C5L5-PF	D-04	RP80-D3000N-CY9P4UE/F	E-04
RP50-L5000R-LY6Q4LE-PF	D-04	RP80-D3000P-CY9P4UE/F	E-04
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RP50-L0700R-LY9Q4LE	D-05	RP80-L6000P-CY9P4UE	E-04
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RP50-L0700R-LY9P4LE	D-05	U05-T0005P-CY9Q4UP	F-02
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U15-T0015N-CY6Q4UP	F-02	PAS2-T5000N-CY9C4U2-32	H-02
U15-T0015N-CY9Q4UP	F-02	PAS2-T5000P-CY9C4U2-32	H-02
U30-T0030P-CY6Q4UP	F-03	PAS2-T5000D-EY9Q4LP-8	H-02
U30-T0030P-CY9Q4UP	F-03	PAS2-T5000N-CY9Q4UP-8	H-02
U30-T0030N-CY6Q4UP	F-03	PAS2-T5000P-CY9Q4UP-8	H-02
U30-T0030N-CY9Q4UP	F-03	PAS2-T5000D-EY9Q4LP-12	H-02
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U50-T0050N-CY6Q4UP	F-03	PAS2-T5000D-EY9Q4LP-16	H-02
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U80-T0080N-CY6Q4UP	F-04	PAS2-T5000N-CY9Q4UP-20	H-02
U80-T0080N-CY9Q4UP	F-04	PAS2-T5000P-CY9Q4UP-20	H-02
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U120-T0120P-CY9Q4UP	F-04	PAS2-T5000N-CY9Q4UP-24	H-02
U120-T0120N-CY6Q4UP	F-04	PAS2-T5000P-CY9Q4UP-24	H-02
U120-T0120N-CY9Q4UP	F-04	PAS2-T5000D-EY9Q4LP-28	H-02
U180-T0180P-CY6Q4UP	F-05	PAS2-T5000N-CY9Q4UP-28	H-02
U180-T0180P-CY9Q4UP	F-05	PAS2-T5000P-CY9Q4UP-28	H-02
U180-T0180N-CY6Q4UP	F-05	PAS2-T5000D-EY9Q4LP-32	H-02
U180-T0180N-CY9Q4UP	F-05	PAS2-T5000N-CY9Q4UP-32	H-02
U220-T0220P-CY6Q4UP	F-05	PAS2-T5000P-CY9Q4UP-32	H-02
U220-T0220P-CY9Q4UP	F-05	PAS2-T5000D-EY9P4LP-8	H-02
U220-T0220N-CY6Q4UP	F-05	PAS2-T5000N-CY9P4UP-8	H-02
U220-T0220N-CY9Q4UP	F-05	PAS2-T5000P-CY9P4UP-8	H-02
PAS1-T3000D-EY9C3L2-5	G-02	PAS2-T5000D-EY9P4LP-12	H-02
PAS1-T3000N-CY9C4U2-5	G-02	PAS2-T5000N-CY9P4UP-12	H-02
PAS1-T3000P-CY9C4U2-5	G-02	PAS2-T5000P-CY9P4UP-12	H-02
PAS1-T3000D-EY9Q4LP-5	G-02	PAS2-T5000D-EY9P4LP-16	H-02
PAS1-T3000N-CY9Q4UP-5	G-02	PAS2-T5000N-CY9P4UP-16	H-02
PAS1-T3000P-CY9Q4UP-5	G-02	PAS2-T5000P-CY9P4UP-16	H-02
PAS1-T3000P-EY9P4LP-5	G-02	PAS2-T5000D-EY9P4LP-20	H-02
PAS1-T3000N-CY9P4UP-5	G-02	PAS2-T5000N-CY9P4UP-20	H-02
PAS1-T3000P-CY9P4UP-5	G-02	PAS2-T5000P-CY9P4UP-20	H-02
PAS2-T5000D-EY9C4L2-8	H-02	PAS2-T5000D-EY9P4LP-24	H-02
PAS2-T5000N-CY9C4U2-8	H-02	PAS2-T5000N-CY9P4UP-24	H-02
PAS2-T5000P-CY9C4U2-8	H-02	PAS2-T5000P-CY9P4UP-24	H-02
PAS2-T5000D-EY9C4L2-12	H-02	PAS2-T5000D-EY9P4LP-28	H-02
PAS2-T5000N-CY9C4U2-12	H-02	PAS2-T5000N-CY9P4UP-28	H-02
PAS2-T5000P-CY9C4U2-12	H-02	PAS2-T5000P-CY9P4UP-28	H-02
PAS2-T5000D-EY9C4L2-16	H-02	PAS2-T5000D-EY9P4LP-32	H-02
PAS2-T5000N-CY9C4U2-16	H-02	PAS2-T5000N-CY9P4UP-32	H-02
PAS2-T5000P-CY9C4U2-16	H-02	PAS2-T5000P-CY9P4UP-32	H-02
PAS2-T5000D-EY9C4L2-20	H-02	RC-D0550P-CY9Q4UE-BS	I-02
PAS2-T5000N-CY9C4U2-20	H-02	RC-D0550P-DY9P4UE-BS	I-02
PAS2-T5000P-CY9C4U2-20	H-02	RC-D0550P-DY9Q4UE-BS	I-03
PAS2-T5000D-EY9C4L2-24	H-02	RC-D0550P-CY9P4UE-BS	I-03
PAS2-T5000N-CY9C4U2-24	H-02	RC-L6500P-CY6Q4UE	I-04
PAS2-T5000P-CY9C4U2-24	H-02	RC-L6500P-DY6Q4UE	I-04
PAS2-T5000D-EY9C4L2-28	H-02		