

# OMRON

# Product Discontinuation

Notices

September 1, 2011

Safety Door Switches

No. 2011307E

# **Discontinuation Notice of part of D4BL series**



#### **Caution on recommended replacement**

- Appearance and dimensions are different
- Mounting dimensions are different
- Characteristics and operation ratings are different

#### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
D4NL series							*

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

## Product Discontinuation and recommended replacement

Product	Recommended
discontinuation	replacement
D4BL-1CRB	D4NL-1AFA-B
D4BI-1CRB-A	D4NL-1AFA-B
D4BL-1DRB	D4NL-1CFA-B
D4BL-1DRB-A	D4NL-1CFA-B
D4BL-2CRB	D4NL-2AFA-B
D4BI-2CRB-A	D4NL-2AFA-B
D4BL-2DRB	D4NL-2CFA-B
D4BL-2DRB-A	D4NL-2CFA-B
D4BL-3CRA	D4NL-4AFA-B
D4BL-3CRA-A	D4NL-4AFA-B
D4BL-3DRA	D4NL-4CFA-B
D4BL-3DRA-A	D4NL-4CFA-B

Product	Recommended
discontinuation	replacement
D4BL-3CRB	D4NL-4AFA-B
D4BL-3CRB-A	D4NL-4AFA-B
D4BL-3DRB	D4NL-4CFA-B
D4BL-3DRB-A	D4NL-4CFA-B
D4BL-3CRG	D4NL-4AFG-B
D4BL-3CRG-A	D4NL-4AFG-B
D4BL-3DRG	D4NL-4CFG-B
D4BL-3DRG-A	D4NL-4CFG-B
D4BL-4CRB	D4NL-4AFA-B
D4BL-4CRB-A	D4NL-4AFA-B
D4BL-4DRB	D4NL-4CFA-B
D4BL-4DRB-A	D4NL-4CFA-B

### Body color

Product discontinuation	Recommendable replacement		
Model D4BL series	Model D4NL series		

#### Dimension



# Wiring

Product discontinuation Model D4BL series	Recommendable replacement Model D4NL series		
<b>Proper lead wire size</b> AWG20 to AWG14 (0.5 to 2.5mm <sup>2</sup> )	AWG20 to AWG18 (0.5 to 0.75mm²)		
Recommended crimp terminal size non	t: 0.5mm $\phi$ dz: 3.7mm $\phi$ D: 2.9mm B: 6.6mm L: 19mm F: 7.7mm 1: 8.0mm $\phi$ D $\phi$ D		

#### Characteristics

Product discontinuation	Recommendable replacement
Model D4BL series	Model D4NL series

#### **Electrical Durability**

500,000 operations min. (10A resistive load at 250VAC)

#### **TÜV Certified Ratings**

	Without indicator	With indicator
Utilization category	AC-15	AC-15
Rated operating current (le)	3A	6A
Rated operating voltage (Ue)	250V	115V

# **UL/CSA Certified Ratings**

A300

Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)	
vonage	current	Make	Break	Make	Break
120VAC	10A	60	6	7.200	720
240VAC	TUA	30	3	7,200	720

500,000 operations min. (3A resistive load at 250VAC)

Utilization category	AC-15	AC-13
Rated operating current (le)	ЗA	0.27A
Rated operating voltage (Ue)	240V	250V

A300					
Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)	
voltage	current	Make	Break	Make	Break
120VAC	10A	60	6	7.200	720
240VAC	IUA	30	3	7,200	720

Q300					
Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)	
voltage	current	Make	Break	Make	Break
125VDC	2.5A	0.55	0.55	69	69
250VDC	2.3A	0.27	0.27	09	09

#### Solenoid Coil Characteristics

	D4BL-[][]RA-[]	D4BL-[][]RG-[]	
Rated operating	24VDC 24VDC		
voltage (100%ED)	+10%/-15%	+10%/-15%	
Current consumption	Approx. 300mA	Approx. 300mA	
Insulation	Class F	Class F	
Insulation	(130C max)	(130C max)	

	D4NL-[][]FA-B	D4NL-[][]FG-B	
Rated operating	24VDC	24VDC	
voltage (100%ED)	+10%/-15%	+10%/-15%	
Current	Approx. 200mA	Approx. 200mA	
consumption	Applox. 20011A	Approx. 20011A	
Insulation	Class F	Class F	
Insulation	(130C max)	(130C max)	

	D4BL-[][]RB-[]	
Rated operating	110VAC	
voltage (100%ED)	+10%/-10%	
Current	Approx. 98mA	
consumption		
Insulation	Class F	
Insulation	(130C max)	

#### **Operation ratings**

Product discontinuation		Recommendable replacement	
Model D4BL series		Model D4NL series	
Key insertion force:	19.61N max.	Key insertion force:	15N max.
Key extraction force:	19.61N max.	Key extraction force:	30N max.
Movement before being L	ocked: 15mm max.	Pre travel (PT):	9mm max.
Total travel:	23mm min.	Movement before being	Locked: 3mm min