PRODUCT NEWS

Product Discontinuation Notices

Code Readers / OCR

OMRON

Issue Date
April 1, 2014

No. 2014049CE

Discontinuation Notice of Laser bar code reader V500-R5 series.

Product Discontinuation		Recommended Replacement
Compact Laser Bar Code Reader		Laser-type Bar Code Reader
Model V500-R521C2 **Model V500-R521B2**	➡	**Model V500-R2CF** **No recommended replacement**

[Discontinuation date]

The end of March, 2015

[Caution on recommended replacement]

It is necessary to change about the mounting position because the outward form size is miniaturized.
No recommended replacement about V500-R521B2 (cable output model).
Please select and use the V500-R2CF (connector model).
The length of the cable is change (from 2m to 1.5m).

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
V500-R2CF	**	--	**	*	**	**	**

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
Model V500-R521B2	No recommended replacement
Model V500-R521C2	Model V500-R2CF

[Body color]

Product discontinuation Model V500-R521B2 Model V500-R521C2	Recommendable replacement Model V500-R2CF
	

[Wire connection]

Product discontinuation
Model V500-R521B2
Model V500-R521C2

Model V500-R521C2

Pin No.3 is Blue
Pin No.4 is Gray

Wire color	Pin No.	Signal name	Function
Green	1	SD	Transmission data
White	2	RD	Received data
Blue	3	RS	Transmission request
Gray	4	CS	Transmission allowed
Brown	5	TRIG	External trigger signal
---	6	NC	Not connected
Black	7	S.GND	0V
Red	8	VCC	Power supply

OK/NG Signal is not connected.
Necessary to cable shaping when use them.

Model V500-R521B2

Wire color	Signal name	Function
Green	SD	Transmission data
White	RD	Received data
Gray	RS	Transmission request
Blue	CS	Transmission allowed
Brown	TRIG	External trigger signal
---	NC	Not connected
Black	S.GND	0V
Red	VCC	Power supply
Yellow	OK	Read OK output
Orange	NG	Read NG output

Recommendable replacement
Model V500-R2CF

Model V500-R2CF.

Pin No.3 is Gray.
Pin No.4 is Blue.

Wire color	Pin No.	Signal name	Function
Green	1	SD	Transmission data
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Yellow	---	OK	Read OK output
Orange	---	NG	Read NG output

OK/NG Signal is not connected.
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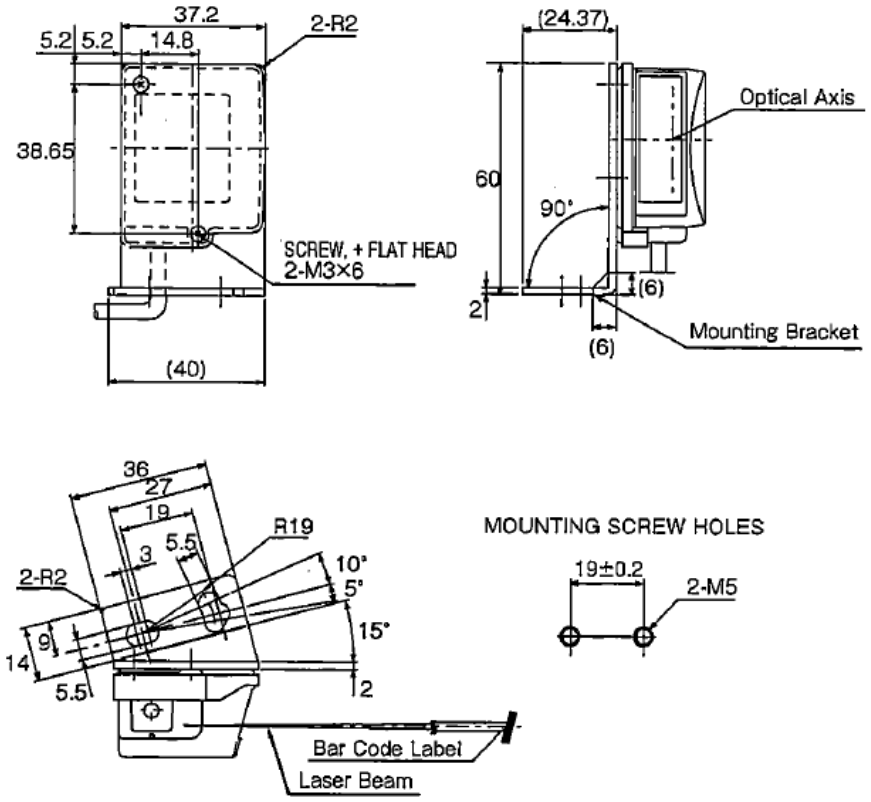
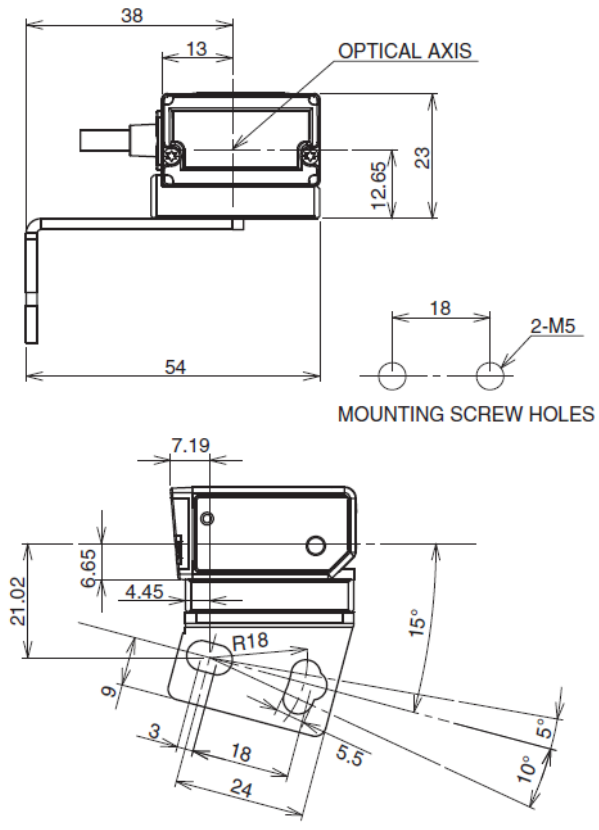
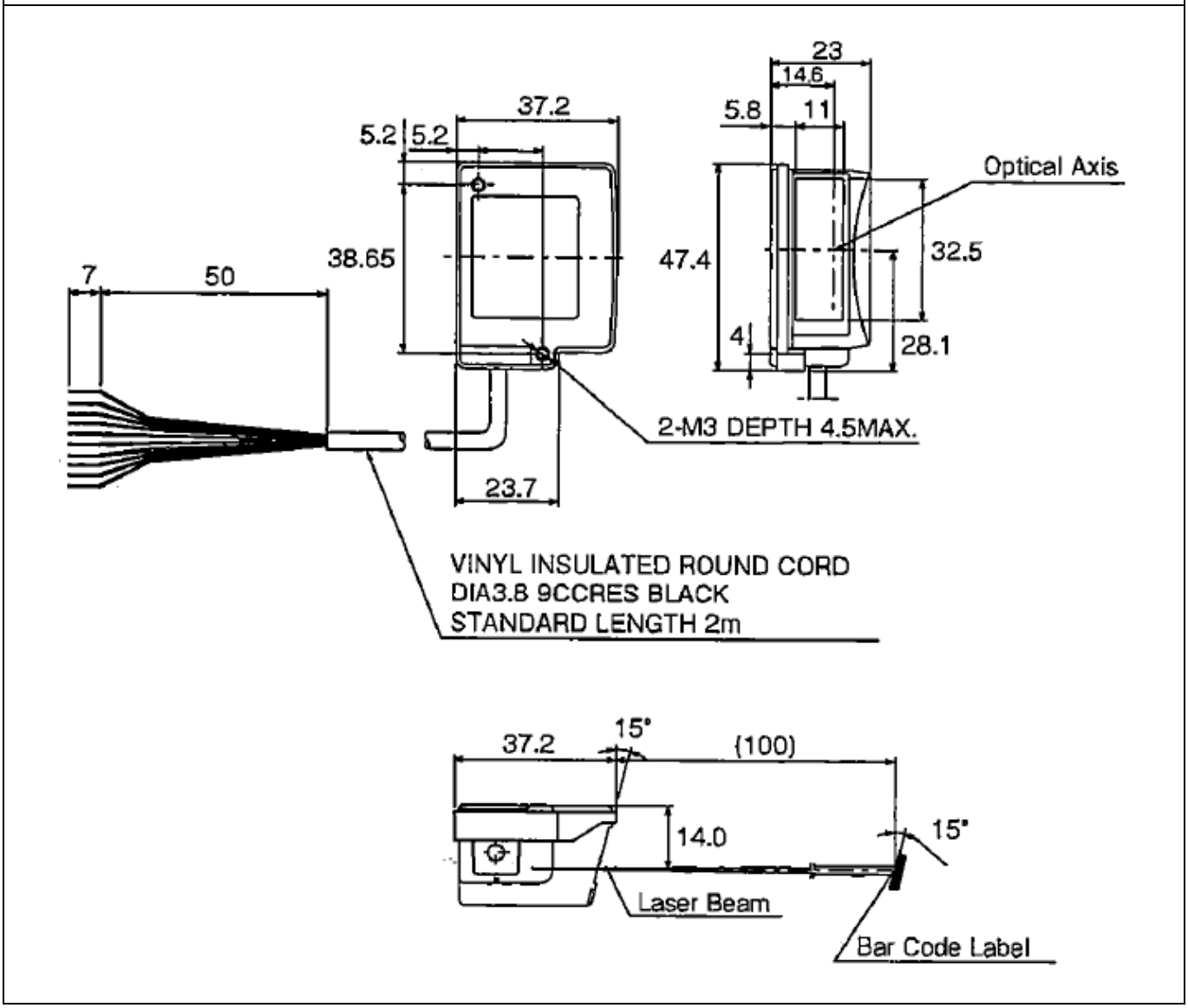
[Mounting dimensions]

Product discontinuation **Model V500-R521B2** **Model V500-R521C2**	**Model V500-R521B2 / Model V500-R521C2** 
Recommendable replacement **Model V500-R2CF**	**Model V500-R2CF** 

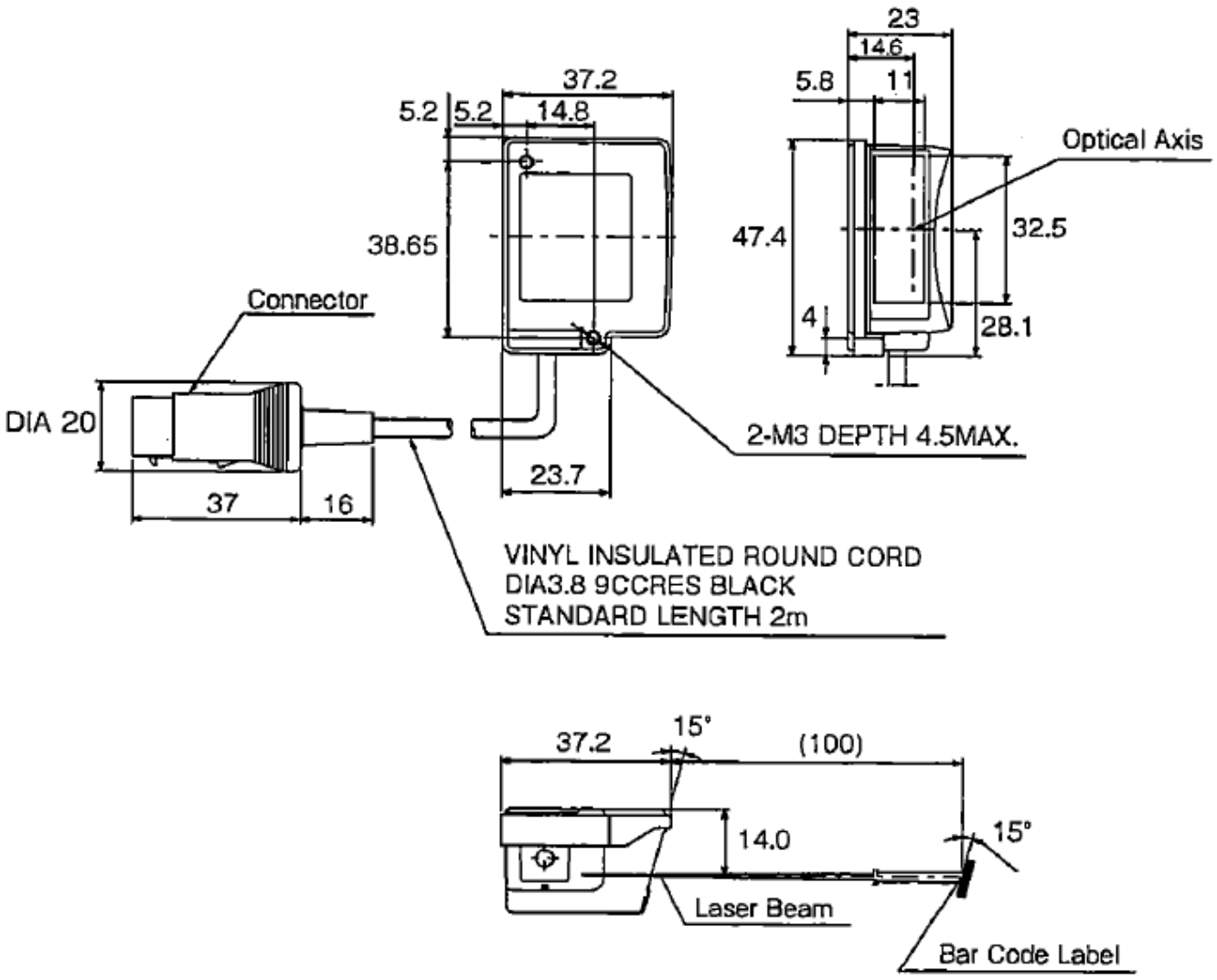
[Dimensions]

Product discontinuation
Model V500-R521B2



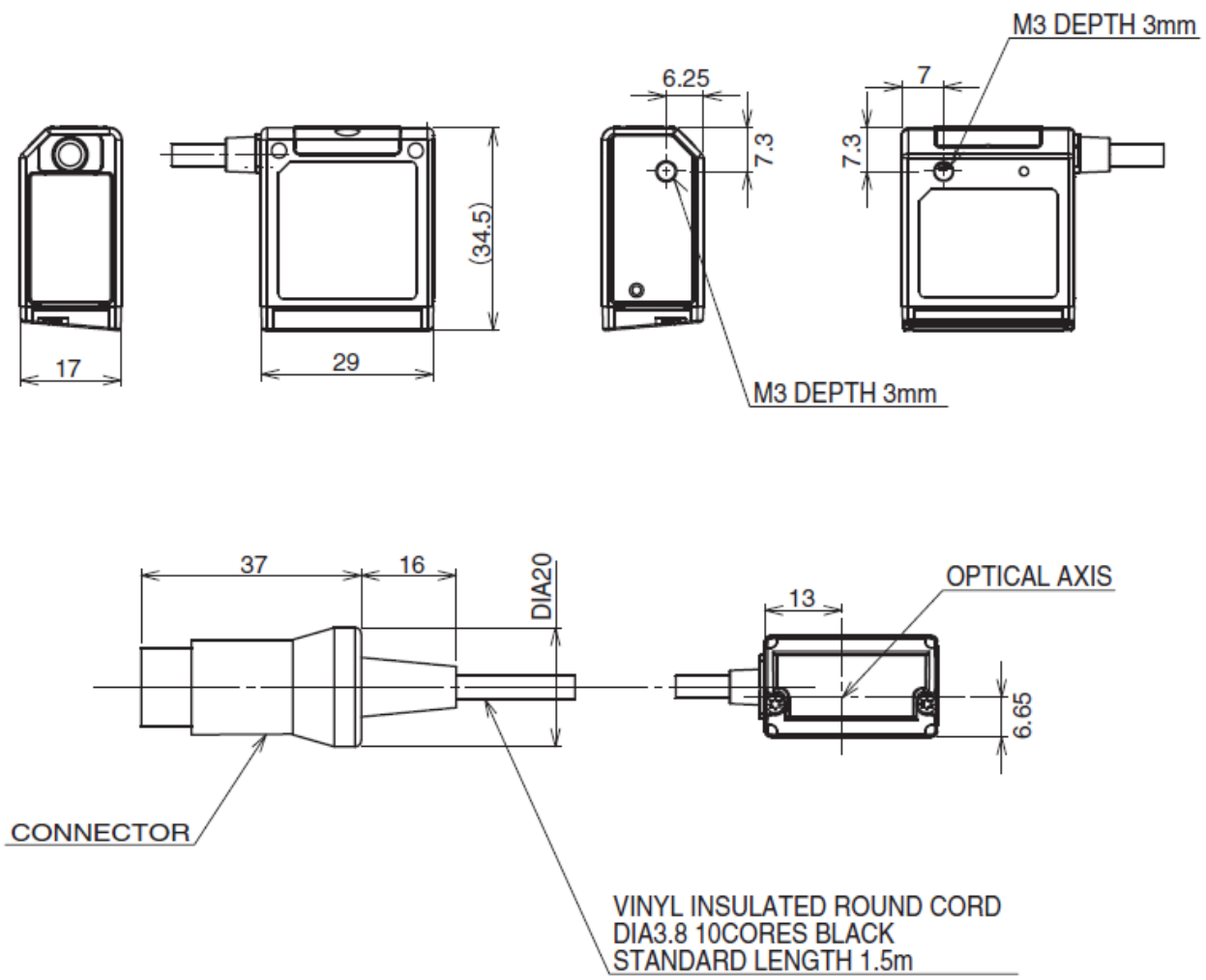
[Dimensions]

Product discontinuation
Model V500-R521C2



[Dimensions]

Recommendable replacement
Model V500-R2CF



[Characteristics]

Item		Product discontinuation Model V500-R521B2 Model V500-R521C2	Recommendable replacement Model V500-R2CF
Applicable codes	**Bar code**	JAN/EAN/UPC (A、E), CODE39, NW-7, ITF, STF (2 of 5bar), CODE93, CODE128 (including EAN128)	WPC (JAN/EAN/UPC), Codabar (NW-7), ITF, Industrial2of5 (STF), Code39, Code93, Code128, GS1-128 (EAN-128), GS1-Databar (RSS-14), GS1-Databar Limited (RSS Limited), GS1-Databar Expanded (RSS Expanded)
	Number of reading digit	32 digit max. (depend on bar wides and size)	No upper limit (depend on bar wides and reading distance)
Reading performance	**Light source**	Red Laser Diode (Wave Length: 650 nm), 1.0 mW or less	
	Minimum resolution	0.15 mm	
	Working distance (WD)	60 to 270 mm (Narrow bar: 1.0 mm)	60 to 270 mm (Narrow bar: 1.0 mm)
	Reading area	40° (Including the margin of the both side)	
	Skew angle (α)	±50° (except for upper 10° and lower 5°)	±60° (except for upper 10° and lower 8°)
	Pitch angle (β)	±25°	±30°
	Scan type	Raster scan	
	Reading of bar codes on curved surface (R)	R ≧15 mm (JAN8) R ≧20 mm (JAN13)	R ≧20 mm (UPC 12 digit)
	Frequency of scan	500 scan/sec.	1,000 scan/sec.
Interface	**Communication specification**	RS-232C	
	OK/NG outputs	NPN open collector output (Model V500-R521B2 only)	NPN open collector output (Necessary to cable shaping)
Function setting method		Menu sheet reading method or host command method	
Functional specification	**Reading trigger**	External trigger (Transistor input) Trigger by command (RS-232C)	
		Trigger a test reading by pressing the TEST button on the product	Trigger a test reading by pressing the SCAN button on the product
	OK/NG signals	OK signal is turned on to indicate a successful read NG signal is turned on to indicate a failed read	OK signal is turned on to indicate a successful read NG signal is turned on to indicate a successful a no-registered label
	Indication LED	OK LED (green) illuminates to indicate a successful read NG LED (red) illuminates for failed reading with an error message output	OK LED (green) illuminates to indicate a successful read
	Buzzer	Notifies a successful reading with a buzzer sound (Muting available)	
Power supply specifications	**Power voltage**	DC4.5 to 5.5V	
	Consumption current	During operation: 330 mA or less During standby: 150 mA or less	During operation: 500 mA or less During standby: 150 mA or less

Item		Product discontinuation Model V500-R521B2 Model V500-R521C2	Recommendable replacement Model V500-R2CF
Environmental specifications	Ambient temperature	At operation: 0 to +45°C At storage: -10 to +60°C	
	Ambient atmosphere	At operation and storage: 30 to 85%RH (with no icing or condensation)	At operation and storage: 20 to 85%RH (with no icing or condensation)
	Ambient humidity	No corrosive gas	
	Ambient light resistance	3,000 lx (fluorescent lamp), 50,000 lx (sunlight)	4,000 lx (fluorescent lamp), 80,000 lx (sunlight)
	Vibration Resistance (destructive)	12 to 100 Hz, 19.6 m/s^2 (2 G), X/Y/Z directions 8 minutes each, 10 times	10 to 150 Hz, single amplitude: 0.35 mm, X/Y/Z directions 8 minutes each, 10 times
Degree of protection		IP54 (IEC60529 standard)	
Weight		Approximately 80 g (except for Cable, Mounting bracket, Insulation board and screw)	
Main body dimension		Approximately 47.4 × 37.2 × 23 mm	Approximately 29 × 34.5 × 17 mm
Code length		Approximately 2 m	Approximately 1.5 m
Input connector		Model V500-R521B2: Wire cable Model V500-R521C2: Round DIN connector	Round DIN connector
Accessories		Operation manual, Menu sheet, Mounting bracket, Insulating plate, Caution label (one), IEC label (one), M3 × 6 screws (two), M5 × 10 screws (two)	Operation manual, Menu sheet, Mounting bracket, Insulating plate, M3 × 6 screws (two), M3 × 8 screws (one), M5 × 10 screws (two)
Material	Case	Zinc die-cast	Magnesium die-cast
			PC (front panel)
	Label	PET	PET
	Reading window	PMMA	PMMA
	Cable	PVC	PVC

Specifications and prices in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.