OsiSense™ XCC
Opto-electronic rotary encoders

Encoder type			**Incremental encoders**			
Applications			**Counting indication**			
						
Diameter of housing			Ø 40 mm	Ø 58 mm	Ø 58 mm parameterable (multi-resolution) *(1)*	Ø 90 mm
Shaft		Solid	Ø 6 mm	Ø 6 mm and Ø 10 mm	Ø 10 mm	Ø 12 mm
		Through	Ø 6 mm	Ø 14 mm Ø 6, 8, 10 and 12 mm (with reduction collar)	Ø 14 mm Ø 6, 8, 10 and 12 mm (with reduction collar)	Ø 30 mm Ø 12, 20 and 25 mm (with reduction collar)
Resolution	Incremental encoders	100 ppr	100 ppr	100 ppr	–	100 ppr
		256 ppr	–	–	256–4096 ppr	–
		360 ppr	360 ppr	360 ppr	360–5760 ppr	360 ppr
		500 ppr	500 ppr	500 ppr	500–8000 ppr	500 ppr
		1000 ppr	1000 ppr	1000 ppr	–	1000 ppr
		1024 ppr	1024 ppr	1024 ppr	1024–16,384 ppr	1024 ppr
		2500 ppr	–	2500 ppr	–	2500 ppr
		3600 ppr	–	–	–	3600 ppr
		4096 ppr	–	–	–	–
		5000 ppr	–	5000 ppr	5000–80,000 ppr	5000 ppr
		10,000 ppr	–	–	–	10,000 ppr
	Absolute encoders	4096 ppr/8192 turns (12-bit/13-bit)	–	–	–	–
		8192 ppr	–	–	–	–
		8192 ppr/4096 turns (13-bit/12-bit)	–	–	–	–
Output stage/supply *(2)*	Incremental encoders	Type R (N)	5 V, RS-422, 4.5–5.5 V	–	–	5 V, RS-422, 4.5–5.5 V
		Type K (N)	Push-pull, 11–30 V	–	–	Push-pull, 11–30 V
		Type X	–	5 V, RS-422, 4.75–30 V	5 V, RS-422, 4.75–30 V	–
		Type Y	–	Push-pull, 5–30 V	Push-pull, 5–30 V	–
	Absolute encoders	Type KB (N) or KG (N)	–	–	–	–
		Type SB (N) or SG (N)	–	–	–	–
		Type C	–	–	–	–
		Type F	–	–	–	–
Connection		Pre-cabled, radial	●	–	–	–
		Connector, radial, M23	–	●	●	●
		Terminal block, radial	–	–	–	–
Catalog Numbers			**XCC14●●●●●**	**XCC15●●●●●**	**XCC15●●●●M●●●**	**XCC19●●●●●**
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(1) Parameterable version: multiplication of the basic resolution of the disc using DIP switches. The factory setting is the one with the lowest value.

(2) Specifications of the output stage/supply types:
- *Type R (N): 5 V output driver, RS-422, 4.5–5,5 V.*
- *Type K (N): push-pull output driver, 11–30 V.*
- *Type X: 5 V output driver, RS-422, 4.75–30 V.*
- *Type Y: push-pull output driver, 5–30 V.*
- *Type KB (N) or KG (N) output: push-pull output driver, 11–30 V, binary code KB (N) or Gray code KG (N).*