



# PRODUCT CHANGE NOTIFICATION

## ENCODERS



## ASIC Modifications for Certain Bourns® Rotary Optical Encoders

### *Model EM14 and EN Series*

Riverside, California – April 8, 2021 – The ASIC (Application-Specific Integrated Circuit) used in certain Model [EM14](#) and [EN](#) Rotary Optical Encoders is no longer available and is being replaced with a different ASIC. Our supplier has obsoleted the tooling for the current ASIC and we will receive the first production batch of the new ASIC on April 23, 2021, to begin building samples and test the affected Bourns® models.

With the recent increase in demand worldwide, we have consumed all of the remaining current ASICs in inventory, resulting in a minimum six-week pause for the previously mentioned Rotary Optical Encoder model series. Samples of the new Rotary Optical Encoders with the new ASIC and qualification data will not be available until after May 18, 2021.

The tooling for the new ASIC was created using a new process. The internal circuitry on the die is the same, but the spacing between tracing is closer together due to the new process. There should be no change in the reliability of the products. This change does not affect the form, fit or function of the EN or EM14 series. A list of affected part numbers is included on the following pages.

Implementation date is as follows:

*Date that production of Rotary Optical Encoders with the new ASIC  
is scheduled to begin: **May 18, 2021***

Please consult with [Bourns Customer Service](#) for production delivery dates and sample availability for testing the Rotary Optical Encoders with the new ASIC in your specific application.

If you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

### Affected Part Numbers

EM14A1A-B24-L008N	EM14A0D-C24-L032H	EM14A1D-B24-L032S	EM14COA-E24-L064S
EM14A1A-B28-L032N	EM14A0D-C24-L032N	EM14A1D-B28-L032H	EM14R0A-500-L016N
EM14A1B-517-L032H	EM14A0D-C24-L032S	EM14A1D-B28-L032N	EM14R0A-508-L064H
EM14A1B-C24-L032H	EM14A0D-C24-L064H	EM14A1D-B28-L032S	EM14R0A-M20-L064H
EM14C1A-C24-L032N	EM14A0D-C24-L064N	EM14A1D-C24-L008H	EM14R0A-M20-L064N
EM14C1A-E24-L008N	EM14A0D-C24-L064S	EM14A1D-C24-L008N	EM14R0A-M20-L264H
EM14C1A-E24-L032H	EM14A0D-C24-L132N	EM14A1D-C24-L008S	EM14R0A-M20-R064N
EM14A0A-504-L064H	EM14A0D-C24-L132S	EM14A1D-C24-L032H	EM14R0A-M25-L064S
EM14A0A-505-L064H	EM14A0D-C24-L164N	EM14A1D-C24-L032N	EM14R0A-M25-R032N
EM14A0A-B24-L064N	EM14A0D-C24-L216S	EM14A1D-C24-L032S	EM14R0A-M25-R064N
EM14A0A-B24-L064S	EM14A0D-C24-L264H	EM14A1D-C24-L108S	EM14R0B-510-L064N
EM14A0A-B24-L164N	EM14A0D-C24-R008S	EM14A1D-C24-L132N	EM14R0B-522-L064N
EM14A0A-C24-L064S	EM14A0D-C28-L032N	EM14A1D-C24-L208H	EM14R0B-524-L064N
EM14A0A-C28-L232N	EM14A0D-C28-L032S	EM14A1D-C24-L232H	EM14R0B-528-L032N
EM14A0B-503-L064H	EM14A0D-C28-L064N	EM14A1D-C24-L232S	EM14R0B-529-L064S
EM14A0B-513-L064H	EM14A1A-B24-R032N	EM14A1D-C28-L032S	EM14R0B-C24-L064S
EM14A0B-525-L064S	EM14A1A-B24-R032S	EM14A1D-C28-R032H	EM14R0B-M20-L064N
EM14A0B-B24-L064H	EM14A1A-C24-L032S	EM14A1D-C28-R232H	EM14R0B-M20-L064S
EM14A0B-B28-L064H	EM14A1B-502-L032N	EM14COA-E24-L064H	EM14R0B-M25-L064N
EM14A0B-B28-R064N	EM14A1B-516-L032N	EM14COA-E24-L064S	EM14R0B-M25-L064S
EM14A0B-C24-L064H	EM14A1B-526-L008S	EM14COA-E28-R164H	EM14R0B-R20-L064N
EM14A0B-C24-L064S	EM14A1B-527-L032H	EM14COD-E24-L016S	EM14R0B-R20-R064S
EM14A0D-506-L064N	EM14A1B-B24-L032N	EM14COD-E24-L032S	EM14R0D-M15-L016N
EM14A0D-507-L064N	EM14A1B-C24-L008H	EM14COD-E24-L064N	EM14R0D-M20-L008N
EM14A0D-515-L032H	EM14A1B-C24-L008N	EM14COD-E24-L064S	EM14R0D-M20-L016N
EM14A0D-520-R264N	EM14A1B-C24-L032N	EM14COD-E24-L264N	EM14R0D-M20-L064H
EM14A0D-B24-L032S	EM14A1B-C24-L032S	EM14COD-E28-L016N	EM14R0D-M20-L064N
EM14A0D-B24-L064S	EM14A1B-C24-R008N	EM14COD-E28-L032S	EM14R0D-M20-L064S
EM14A0D-B28-L008S	EM14A1B-C24-R032S	EM14COD-E28-L064N	EM14R0D-M20-L132S
EM14A0D-B28-L032N	EM14A1D-501-L032H	EM14COD-E28-L064S	EM14R0D-M20-L216N
EM14A0D-B28-L032S	EM14A1D-511-L008H	EM14C1A-E28-L032N	EM14R0D-M20-L232N
EM14A0D-B28-L064N	EM14A1D-512-L232H	EM14C1D-B24-L032S	EM14R0D-M20-R064N
EM14A0D-B28-L064S	EM14A1D-514-L232N	EM14C1D-E24-L008S	EM14R0D-M20-R464N
EM14A0D-C24-L008N	EM14A1D-518-L232H	EM14C1D-E24-L032S	EM14R0D-M25-L016N
EM14A0D-C24-L016S	EM14A1D-519-L232N	EM14C1D-E28-L032S	EM14R0D-M25-L032N

### Affected Part Numbers

EM14R0D-M25-L064N	ENA1D-482-R00064	ENA1D-B28-R00064	ENA1J-B20-L00128L
EM14R0D-M25-L064S	ENA1D-491-Y00200	ENA1D-B28-R00064L	ENA1J-B20-R00064
EM14R0D-R20-L032N	ENA1D-494-L00100	ENA1D-B28-R00128	ENA1J-B20-R00064L
EM14R0D-R20-L032S	ENA1D-494-L00100L	ENA1D-B28-R00128L	ENA1J-B24-L00100
EM14R0D-R20-L064S	ENA1D-510-N00064L	ENA1D-B28-R00256	ENA1J-B28-L00025
EM14R0D-R20-R016S	ENA1D-511-N00128L	ENA1D-B28-R00256L	ENA1J-B28-L00025L
EM14R0D-R20-R032N	ENA1D-514-L00064L	ENA1D-B28-W00256L	ENA1J-B28-L00050
EM14R0D-R25-L032N	ENA1D-514-L00066L	ENA1D-B32-L00025	ENA1J-B28-L00064
EM14R0D-R25-L032S	ENA1D-519-N00128L	ENA1D-C16-L00100	ENA1J-B28-L00064L
EM14R0D-R25-L064S	ENA1D-B16-L00064	ENA1D-C28-L00256L	ENA1J-B28-L00100
EM14R1A-M20-L032S	ENA1D-B16-L00100	ENA1D-C28-R00256L	ENA1J-B28-L00100L
EM14R1A-M20-R032S	ENA1D-B16-R00064	ENA1J-442-M00128	ENA1J-B28-L00128
EM14R1A-M25-L008H	ENA1D-B16-R00128	ENA1J-456-L00128	ENA1J-B28-L00128L
EM14R1A-M25-L032S	ENA1D-B20-L00025	ENA1J-456-L00128L	ENA1J-B28-L00256
EM14R1A-R20-L008N	ENA1D-B20-L00064	ENA1J-473-Y00064	ENA1J-B28-L00256L
EM14R1A-R20-L032S	ENA1D-B20-L00064L	ENA1J-482-R00064	ENA1J-B28-M00128
EM14R1B-523-L032S	ENA1D-B20-L00100	ENA1J-492-M00100	ENA1J-B28-N00128
EM14R1B-M20-L032N	ENA1D-B20-L00100L	ENA1J-498-R00064	ENA1J-B28-N00128L
EM14R1B-M20-L032S	ENA1D-B20-L00128	ENA1J-498-R00064L	ENA1J-B28-R00064
EM14R1B-M25-L008H	ENA1D-B20-L00128L	ENA1J-500-L00256	ENA1J-B28-R00064L
EM14R1D-M20-L008S	ENA1D-B20-R00025	ENA1J-501-N00064	ENA1J-B28-R00100L
EM14R1D-M20-L032H	ENA1D-B20-R00025L	ENA1J-501-N00064L	ENA1J-B28-R00128
EM14R1D-M20-L032S	ENA1D-B20-R00128	ENA1J-505-L00128	ENA1J-B28-W00128
EM14R1D-M20-L208S	ENA1D-B20-W00128	ENA1J-509-W00128L	ENA1J-B40-L00025
EM14R1D-M20-R008N	ENA1D-B20-W00128L	ENA1J-512-L00100L	ENA1J-C20-N00128L
EM14R1D-M25-L032N	ENA1D-B22-L00064	ENA1J-516-M00256L	ENA1J-C28-L00064L
EM14R1D-M25-L032S	ENA1D-B24-L00064	ENA1J-518-N00128L	ENA1J-C28-L00100L
EM14R1D-R20-L032N	ENA1D-B28-L00050	ENA1J-520-W00128L	ENA1J-C28-L00128
EM14R1D-R20-L032S	ENA1D-B28-L00064	ENA1J-B16-L00064	ENA1J-C28-L00128L
EM14R1D-R25-L032S	ENA1D-B28-L00100	ENA1J-B16-Y00025L	ENA1J-C28-N00128L
ENA1D-472-L00050	ENA1D-B28-L00100L	ENA1J-B20-L00064	ENA1J-C28-R00128
ENA1D-472-L00050L	ENA1D-B28-L00128	ENA1J-B20-L00064L	ENA1J-C28-R00128L
ENA1D-477-L00100	ENA1D-B28-L00128L	ENA1J-B20-L00100	ENA1J-C28-Y00128
ENA1D-481-L00100	ENA1D-B28-L00256	ENA1J-B20-L00100L	ENA1J-D28-L00256
ENA1D-481-L00100L	ENA1D-B28-N00128L	ENA1J-B20-L00128	ENA1P-427-L00128

### Affected Part Numbers

ENA1P-453-L00050	ENC1D-D28-N00128	ENC1J-D28-L00128L	ENS1D-C28-L00128L
ENA1P-453-L00050L	ENC1D-D28-R00025	ENC1J-D28-L00200	ENS1D-C28-W00128
ENA1P-B16-L00050	ENC1D-D28-R00025L	ENC1J-D28-L00256	ENS1J-440-L00128
ENA1P-B28-L00050	ENC1D-D28-R00064	ENC1J-D28-L00256L	ENS1J-448-M00100
ENA1P-B28-L00050L	ENC1D-D28-R00256	ENC1J-D28-M00064	ENS1J-448-M00100L
ENA1P-B28-L00128	ENC1D-D28-R00256L	ENC1J-D28-R00064	ENS1J-450-R00256
ENA1P-B28-L00128L	ENC1J-421-L00128	ENC1J-D28-R00128L	ENS1J-450-R00256L
ENA1P-C24-L00256L	ENC1J-459-L00128	ENC1J-D28-W00128	ENS1J-454-L00100
ENA2D-B28-L00064	ENC1J-465-R00064	ENC1P-421-L00128	ENS1J-454-L00100L
ENA2J-B28-L00064	ENC1J-487-L00100	ENC1P-D28-L00128	ENS1J-466-W00128
ENA2J-B28-L00064L	ENC1J-D16-L00064	ENC2J-D16-R00100L	ENS1J-466-W00128L
ENA2J-B28-L00100	ENC1J-D16-L00064L	ENS1D-441-M00128	ENS1J-469-L00256
ENA2J-B28-L00100L	ENC1J-D16-L00128	ENS1D-452-Y00256	ENS1J-469-L00256L
ENA2J-B28-R00100	ENC1J-D16-L00128L	ENS1D-452-Y00256L	ENS1J-470-W00128
ENA2J-C28-L00128	ENC1J-D16-L00200	ENS1D-460-W00128	ENS1J-470-W00128L
ENA2J-C28-L00128L	ENC1J-D16-L00256	ENS1D-464-M00128	ENS1J-476-L00256
ENC1D-429-W00064	ENC1J-D16-R00128	ENS1D-474-M00128	ENS1J-478-M00128
ENC1D-484-R00128	ENC1J-D16-R00256	ENS1D-475-Y00200	ENS1J-497-L00256
ENC1D-485-L00100	ENC1J-D16-R00256L	ENS1D-475-Y00200L	ENS1J-504-L00256
ENC1D-487-L00100	ENC1J-D20-L00064	ENS1D-489-W00100	ENS1J-504-L00256L
ENC1D-D16-L00064	ENC1J-D20-L00100	ENS1D-489-W00100L	ENS1J-508-R00128L
ENC1D-D16-L00064L	ENC1J-D20-L00100L	ENS1D-B28-L00064	ENS1J-517-L00128L
ENC1D-D16-L00128	ENC1J-D20-L00128	ENS1D-B28-L00064L	ENS1J-B16-L00100
ENC1D-D16-L00128L	ENC1J-D20-L00128L	ENS1D-B28-L00100	ENS1J-B16-L00100L
ENC1D-D16-L00256	ENC1J-D20-L00256	ENS1D-B28-L00100L	ENS1J-B16-L00128
ENC1D-D20-L00128	ENC1J-D20-R00125L	ENS1D-B28-L00128	ENS1J-B16-L00256L
ENC1D-D20-L00128L	ENC1J-D20-R00128L	ENS1D-B28-L00128L	ENS1J-B16-R00100
ENC1D-D20-L00256	ENC1J-D24-R00064	ENS1D-B28-L00256	ENS1J-B20-L00064
ENC1D-D20-R00128	ENC1J-D28-L00025	ENS1D-B28-L00256L	ENS1J-B20-L00100
ENC1D-D28-L00064	ENC1J-D28-L00050	ENS1D-B28-R00050	ENS1J-B20-L00100L
ENC1D-D28-L00064L	ENC1J-D28-L00064	ENS1D-B28-R00050L	ENS1J-B20-L00128
ENC1D-D28-L00100	ENC1J-D28-L00064L	ENS1D-B28-R00064	ENS1J-B20-L00256
ENC1D-D28-L00100L	ENC1J-D28-L00100	ENS1D-B28-Y00256	ENS1J-B20-L00256L
ENC1D-D28-L00128	ENC1J-D28-L00100L	ENS1D-B28-Y00256L	ENS1J-B20-R00025
ENC1D-D28-L00128L	ENC1J-D28-L00128	ENS1D-C28-L00128	ENS1J-B20-R00256L

### Affected Part Numbers

ENS1J-B28-L00025	ENS1P-458-L00128L	ENT1D-D28-R00100L	ENZ1D-417-L00100
ENS1J-B28-L00050	ENS1P-B28-L00128	ENT1D-D28-W00100	ENZ1D-423-Z00128
ENS1J-B28-L00064	ENS2D-B28-L00128	ENT1D-D28-W00100L	ENZ1D-423-Z00128L
ENS1J-B28-L00064L	ENS2J-B28-L00064	ENT1D-D20-L00128	ENZ1D-444-L00100
ENS1J-B28-L00100	ENS2J-B28-L00100	ENT1J-445-M00100	ENZ1D-444-L00100L
ENS1J-B28-L00100L	ENS2J-B28-L00128	ENT1J-D16-L00256	ENZ1D-461-M00100
ENS1J-B28-L00128	ENS2J-B28-L00128L	ENT1J-D20-L00256	ENZ1D-463-L00100
ENS1J-B28-L00128L	ENS2J-C20-R00050	ENT1J-D20-R00256	ENZ1D-471-Z00128
ENS1J-B28-L00256	ENT1D-419-Y00128	ENT1J-D20-R00256L	ENZ1D-471-Z00128L
ENS1J-B28-L00256L	ENT1D-430-Y00050	ENT1J-D28-L00025	ENZ1D-488-L00100
ENS1J-B28-R00100	ENT1D-431-W00064	ENT1J-D28-L00025L	ENZ1D-488-L00100L
ENS1J-B28-R00100L	ENT1D-437-L00256	ENT1J-D28-L00064	ENZ1D-493-L00100
ENS1J-B28-R00128	ENT1D-437-L00256L	ENT1J-D28-L00064L	ENZ1D-494-L00100
ENS1J-B28-R00128L	ENT1D-438-L00256	ENT1J-D28-L00100	ENZ1D-495-L00100
ENS1J-B28-R00256	ENT1D-438-L00256L	ENT1J-D28-L00100L	ENZ1D-495-L00100L
ENS1J-B28-W00100	ENT1D-449-Y00064	ENT1J-D28-L00128	ENZ1D-496-L00100
ENS1J-B28-W00128	ENT1D-449-Y00064L	ENT1J-D28-L00128L	ENZ1D-506-Z00128L
ENS1J-B28-Y00128	ENT1D-457-Y00050	ENT1J-D28-L00256	ENZ1D-507-Z00128L
ENS1J-B28-Y00128L	ENT1D-467-Y00064	ENT1J-D28-L00256L	ENZ1J-401-L00256
ENS1J-B28-Y00256	ENT1D-467-Y00064L	ENT1J-D28-M00128	ENZ1J-405-L00128
ENS1J-B28-Y00256L	ENT1D-502-W00064	ENT1J-D28-R00050	ENZ1J-410-Y00025
ENS1J-B32-W00256	ENT1D-502-W00064L	ENT1J-D28-R00128	ENZ1J-410-Y00025L
ENS1J-B40-L00025	ENT1D-D16-L00256	ENT1J-D28-R00256	ENZ1J-462-L00050
ENS1J-B60-L00100	ENT1D-D16-R00128	ENW1D-432-W00064	ENZ1P-436-L00050
ENS1J-C20-Y00256	ENT1D-D20-L00128	ENW1D-432-W00064L	ENZ1P-436-L00050L
ENS1J-C24-R00025	ENT1D-D20-L00256	ENW1D-461-M00100	ENZ1P-515-L00050L
ENS1J-C24-R00025L	ENT1D-D20-L00256L	ENW1D-479-L00256	
ENS1J-C28-L00064L	ENT1D-D20-R00128	ENW1D-D16-R00256	
ENS1J-C28-L00128	ENT1D-D20-R00256L	ENW1D-D24-L00064	
ENS1J-C28-L00128L	ENT1D-D28-L00100	ENW1D-D28-L00128	
ENS1J-C28-R00128	ENT1D-D28-L00100L	ENW1D-D28-L00256	
ENS1J-C28-R00128L	ENT1D-D28-L00256	ENW1D-D28-L00256L	
ENS1J-C28-Y00256	ENT1D-D28-M00256	ENW1J-D28-L00128	
ENS1P-427-L00128	ENT1D-D28-M00256L	ENZ1D-411-W00100	
ENS1P-458-L00128	ENT1D-D28-R00100	ENZ1D-416-L00128	