

# KL3458 | Bus Terminal, 8-channel analog input, current, 4...20 mA, 12 bit, single-ended

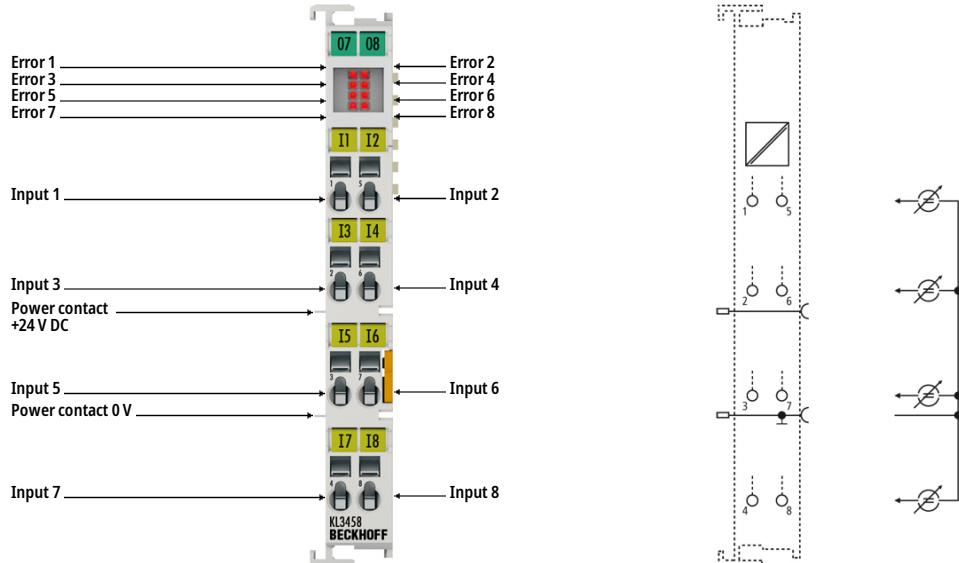
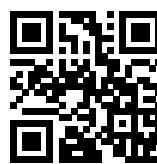


Image similar, may contain optional accessories

## Product status: regular delivery

The KL3454 analog input terminal processes signals in the range between 4 and 20 mA. The current is digitized to a resolution of 12 bits and is transmitted, in an electrically isolated form, to the higher-level automation device. The KL3458 combines eight channels in one housing and is particularly suitable for space-saving installation in control cabinets. The use of single conductor connection technology enables the connection of multi-channel sensor technology with minimum space requirements. The power contacts are connected through. The reference ground for all inputs is the 0 V power contact. Overload is detected. The terminal status is relayed to the controller via the K-bus. The run LEDs indicate the data exchange with the Bus Coupler, the error LEDs overload or wire breakage.

## Product information

### Technical data

Technical data	KL3458
Number of inputs	8
Power supply	via the K-bus
Signal current	4...20 mA
Technology	single-ended
Internal resistance	< 85 Ω
Common-mode voltage $U_{CM}$	–

<b>Conversion time</b>	~ 4 ms
<b>Resolution</b>	12 bit
<b>Measurement error/uncertainty</b>	< ±0.3% (relative to full scale value)
<b>Surge voltage resistance</b>	30 V DC
<b>Electrical isolation</b>	500 V (K-bus/signal voltage)
<b>Current consumption power contacts</b>	–
<b>Current consumption K-bus</b>	typ. 105 mA
<b>Bit width in the process image</b>	input: 8 x 16 bit data (8 x 8 bit control/status optional)
<b>Configuration</b>	no address or configuration setting
<b>Special features</b>	high packing density
<b>Weight</b>	approx. 55 g
<b>Operating temperature</b>	0...55°C
<b>Storage temperature</b>	-25...+85°C
<b>Relative humidity</b>	95%, no condensation
<b>Vibration/shock resistance</b>	conforms to EN 60068-2-6/EN 60068-2-27
<b>EMC immunity/emission</b>	conforms to EN 61000-6-2/EN 61000-6-4
<b>Protect. rating/installation pos.</b>	IP20/variable
<b>Approvals/markings</b>	CE, CCC, UL, ATEX, IECEx, DNV GL
<b>Pluggable wiring</b>	for all KSxxxx Bus Terminals
<b>Ex marking</b>	ATEX: II 3 G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc

Housing data	KL-12-8pin	KS-12-8pin
<b>Design form</b>	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
<b>Material</b>	polycarbonate	
<b>Installation</b>	on 35 mm DIN rail, conforming to EN 60715 with lock	
<b>Side by side mounting by means of</b>	double slot and key connection	
<b>Marking</b>	labeling of the BZxxxx series	
<b>Wiring</b>	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
<b>Connection cross-section</b>	s*: 0.08...2.5 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>	s*: 0.08...1.5 mm <sup>2</sup> , st*: 0.08...1.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
<b>Connection cross-section AWG</b>	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16	s*: AWG28...16, st*: AWG28...16, f*: AWG26...16

Stripping length	8...9 mm	9...10 mm
Current load power contacts	$I_{max}$ : 10 A	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	

\*s: solid wire; st: stranded wire; f: with ferrule

## Ordering information

Ordering information	
KL3458	Bus Terminal, 8-channel analog input, current, 4...20 mA, 12 bit, single-ended
KS3458	Bus Terminal, 8-channel analog input, current, 4...20 mA, 12 bit, single-ended, pluggable wiring