HART Multiplexer Slave
KFD0-HMS-16

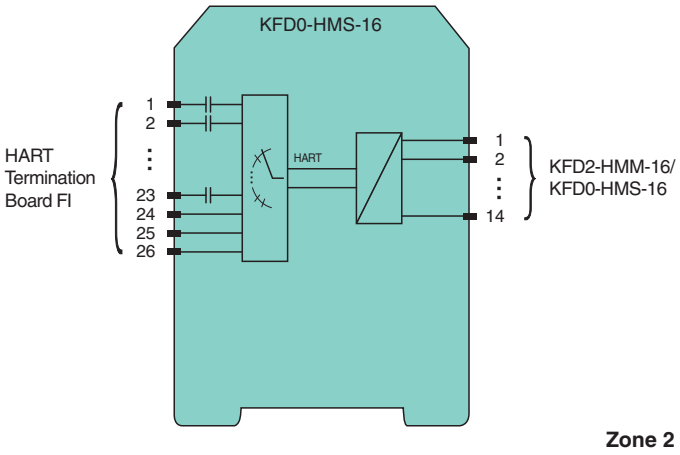
- 16-channel
- No external power required
- HART field device input (revision 5 to 7)
- Used with HART Multiplexer Master KFD2-HMM-16
- Up to SIL 3 acc. to IEC/EN 61508

HART Multiplexer Slave

Function

This HART Multiplexer Slave operates up to 16 analog field instruments. It can be operated only with the HART Multiplexer Master KFD2-HMM-16 and is powered by the master across a 14- pin flat cable connection.
Up to 15 slaves can be connected to the master.
The slave address is set with a 16- position rotary switch (addresses 1 ... 16). If only one slave is connected to the master, then the slave address should be 1. If multiple slaves are connected, slaves must be assigned addresses in ascending order.
The analog signals are fed into the slave by means of a 26-pin flat cable. Sixteen leads are reserved for the HART signal of the analog measurement circuits. The remaining 10 leads are assigned to ground.

Connection



Technical Data

Functional safety related parameters	
Safety Integrity Level (SIL)	SIL 3
Supply	
Connection	via 14-channel flat cable form master KFD2-HMM-16
HART signal channels (non-intrinsically safe)	
Conformity	HART field device input (revision 5 to 7)
Connection	26-pin flat cable for analog connections 14-pin flat cable for master-slave connection between KFD2-HMM-16 and KFD0-HMS-16
Leakage current	< 3 µA at -20 ... 85 °C (-4 ... 185 °F)

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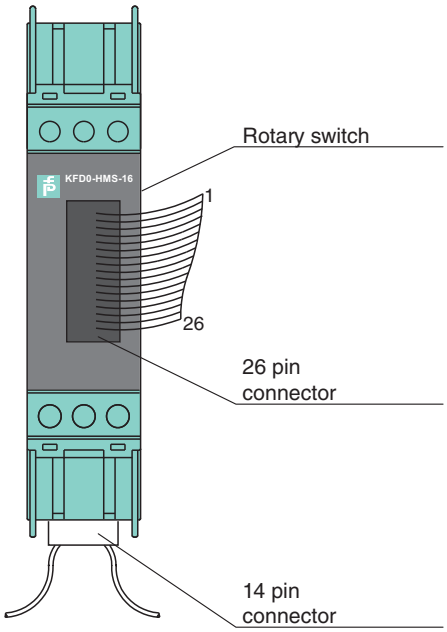
Technical Data

Terminating resistor	external 230 ... 500 Ω standard (up to 1000 Ω possible)
Output voltage	≥ 400 mV $_{ss}$ (with the terminator resistance specified above)
Output resistance	100 Ω or smaller, capacitive coupling
Input impedance	according to HART specification
Input voltage range	0.08 ... 4 V $_{ss}$; typ. ± 5.2 V as local reference
Indicators/settings	
Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Degree of protection	IEC 60529:2001
Ambient conditions	
Ambient temperature	-20 ... 65 °C (-4 ... 149 °F)
Mechanical specifications	
Degree of protection	IP20
Mass	approx. 100 g
Dimensions	20 x 93 x 115 mm (0.8 x 3.7 x 4.5 inch) (W x H x D) , housing type B1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas	
Certificate	PF 07 CERT 1143 X
Marking	⟨Ex⟩ II 3G Ex nA IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-15:2010
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Assembly

Front view



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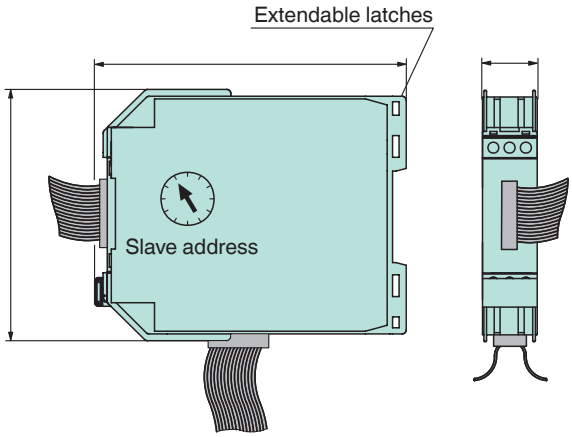
Commissioning

Dimensions



Matching System Components

	PACTware 5.X	FDT Framework
	DTM Generic HART	Device type manager (DTM) for HART communication
	DTM HART Comm	Device type manager (DTM) for HART communication
	DTM HART Multiplexer	Device type manager (DTM) for HART communication
	K-HM14	HART connection cable for master - slave connection
	K-HM26	HART connection cable for master/slave - termination board connection
	KFD2-HMM-16	HART Multiplexer Master

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