Proximity Sensor Terminology

Material influence

The nominal sensing distance (Sn) is defined using precisely defined measuring conditions (See Operating Distance). Other conditions may result in a reduction of the operating distance. The table below shows the influence different target materials have on the operating distances of the sensors.

Material Influence					
Sensor Series	Target Material Value				
	Steel	Copper	Aluminum	Brass	Stainless Steel
AC1-**-1*	1.00	0.28	0.21	0.32	0.63
AC1-**-3*	1.00	0.29	0.23	0.31	0.66
AE*-A*-1*	1.00	0.29	0.38	0.49	0.78
AE*-A*-2*	1.00	0.43	0.51	0.59	0.83
AE*-A*-3*	1.00	0.35	0.43	0.52	0.78
AE*-A*-4*	1.00	0.47	0.52	0.58	0.79
AE*-A*-5*	1.00	0.27	0.33	0.41	0.72
AE9-10-1*	1.00	0.25	0.28	0.40	0.68
AES-**-1*	1.00	0.15	0.10	0.15	0.55
AES-**-3*	1.00	0.15	0.15	0.21	0.56
AHS-**-1*	1.00	0.10	0.05	0.13	0.54
AHS-**-3*	1.00	0.05	0.05	0.10	0.50
AK1-A*-1*	1.00	0.40	0.48	0.72	0.86
AK1-A*-2*	1.00	0.45	0.53	0.56	0.77
AK1-A*-3*	1.00	0.40	0.45	0.50	0.75
AK1-A*-4*	1.00	0.45	0.53	0.56	0.77
AK9-**-1*	1.00	0.15	0.18	0.28	0.60
AM*-A*-1*	1.00	0.22	0.31	0.41	0.77
AM*-A*-2*	1.00	0.41	0.47	0.56	0.86
AM*-A*-3*	1.00	0.33	0.40	0.50	0.82
AM*-A*-4*	1.00	0.41	0.46	0.52	0.71
AM1-A0-1*	1.00	0.30	0.35	0.50	0.80
AM1-A0-2*	1.00	0.52	0.57	0.62	0.87
AM1-A0-3*	1.00	0.42	0.47	0.55	0.80
AM1-A0-4*	1.00	0.51	0.56	0.62	0.78
AM*/*0-5H	1.00	0.25	0.30	0.40	0.70
AM9-**-1*	1.00	0.20	0.28	0.35	0.47
APS4-12*-E*-D	1.00	0.35	0.45	0.55	0.70
APS25-8*-E-D	1.00	0.40	0.50	0.50	0.75
AT1-A*-1*	1.00	0.35	0.45	0.50	0.75
AT1-A*-2*	1.00	0.45	0.50	0.55	0.80
AT1-A*-3*	1.00	0.35	0.45	0.50	0.70
AT1-A*-4*	1.00	0.45	0.50	0.55	0.75
AT9-**-1*	1.00	0.17	0.20	0.30	0.65
CR5-A*-**	1.00	0.60	0.60	0.70	0.85
CR8-A*-1*	1.00	0.40	0.45	0.55	0.80
CR8-A*-2*	1.00	0.45	0.50	0.60	0.80
CR8-A*-3*	1.00	0.27	0.36	0.45	0.77
DR10-A*-1*	1.00	0.25	0.28	0.37	0.63
DR10-A*-2*	1.00	0.41	0.50	0.55	0.75
DW-A*-50*-04	1.00	0.25	0.28	0.36	0.60
DW-A*-50*-M5	1.00	0.30	0.33	0.42	0.67

Proximity Sensor Terminology

Material Influence

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Material Influence					
Sensor Series	*Target Material Value*				
	Steel	*Copper*	*Aluminum*	*Brass*	*Stainless Steel*
DW-A*-50*-M8-001	1.00	0.27	0.33	0.41	0.72
DW-A*-50*-M8	1.00	0.27	0.33	0.41	0.72
DW-A*-50*-M12	1.00	0.25	0.30	0.40	0.70
DW-A*-50*-M18	1.00	0.26	0.30	0.40	0.67
DW-A*-50*-M18-002	1.00	0.26	0.30	0.40	0.67
DW-A*-50*-M30	1.00	0.35	0.40	0.45	0.66
DW-A*-50*-M30-002	1.00	0.35	0.40	0.45	0.66
DW-A*-50*P12	1.00	0.12	0.20	0.34	0.75
DW-A*-50*P8	1.00	0.22	0.26	0.39	0.66
DW-A*-51*-M8	1.00	0.44	0.47	0.55	0.77
DW-A*-51*-M8-001	1.00	0.44	0.47	0.55	0.77
DW-A*-51*-M12*	1.00	0.45	.049	0.56	0.77
DW-A*-51*-M18	1.00	0.42	0.44	0.50	0.69
DW-A*-51*-M18-002	1.00	0.42	0.44	0.50	0.69
DW-A*-51*-M30	1.00	0.37	0.42	0.47	0.78
DW-A*-51*-M30-002	1.00	0.37	0.42	0.47	0.78
DW-A*-52x-M8	1.00	0.22	0.25	0.33	0.63
DW-A*-52x-M12	1.00	0.23	0.27	0.36	0.67
DW-A*-60*-M8*	1.00	0.20	0.25	0.35	0.70
DW-A*-60*-M12*	1.00	0.30	0.35	0.50	0.85
DW-A*-60*-M18*	1.00	0.30	0.35	0.45	0.75
DW-A*-60*-M30*	1.00	0.40	0.45	0.55	0.80
DW-A*-61*-M8*	1.00	0.50	0.50	0.60	0.80
DW-A*-61*-M12*	1.00	0.50	0.50	0.60	0.90
DW-A*-61*-M18*	1.00	0.40	0.40	0.50	0.70
DW-A*-61*-M30*	1.00	0.40	0.50	0.50	0.85
DW-A*-62*-03-96*	1.00	0.45	0.50	0.60	0.80
DW-A*-62*-03	1.00	0.45	0.50	0.60	0.80
DW-A*-62*-M4-96*	1.00	0.45	0.50	0.60	0.80
DW-A*-62*-M4	1.00	0.45	0.50	0.60	0.80
DW-A*-62*-M8*	1.00	0.30	0.30	0.45	0.70
DW-A*-62*-M12*	1.00	0.40	0.44	0.54	0.80
DW-A*-62*-M18*	1.00	0.30	0.35	0.40	0.70
DW-A*-63*-M8*	1.00	0.40	0.45	0.50	0.75
DW-A*-63*-M12*	1.00	0.45	0.70	0.55	0.75
DW-A*-63*-M18*	1.00	0.40	0.45	0.55	0.75
DW-A*-63*-M30*	1.00	0.40	0.70	0.50	0.60
DW-A*-70*-C23	1.00	0.80	1.00	1.20	0.85
DW-A*-70*-C23-276	1.00	0.80	1.00	1.20	0.85
DW-Ax-71x-04	1.00	0.95	1.00	1.35	0.40
DW-Ax-71x-M5	1.00	0.95	1.00	1.35	0.40

Proximity Sensor Terminology

Material influence

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Material Influence					
Sensor Series	Target Material Value				
	Steel	Copper	Aluminum	Brass	Stainless Steel
DW-A*-71*-M8	1.00	0.85	1.00	1.40	0.90
DW-A*-71*-M8-001	1.00	0.85	1.00	1.40	0.90
DW-A*-71*-M12	1.00	0.80	1.00	1.40	0.65
DW-A*-71*-M12-967	1.00	1.50	1.0	1.80	0/0
DW-A*-71*-M18-002	1.00	0.90	1.00	1.35	0.70
DW-A*-71*-M18	1.00	0.90	1.00	1.35	0.70
DW-A*-71*-M18-002	1.00	0.90	1.00	1.35	0.70
DW-A*-71*-M18-967	1.00	1.50	1.70	1.70	0/0.2
DW-A*-71*-M30	1.00	0.90	1.00	1.20	0.25
DW-A*-71*-M30-002	1.00	0.90	1.00	1.20	0.25
DW-A*-71*-M30-967	1.00	1.65	1.65	1.20	0/0
DW-AD-603-M10E-***	1.00	0	0	0.05	0.70
DW-AD-62*-03E-961	1.00	0.18	0.21	0.32	0.50
DW-HD-60*-M12-200	1.00	0.15	0.20	0.15	0.65
DW-HD-60*-M18-310	1.00	0.20	0.25	0.35	0.70
DW-HD-60*-M18-411	1.00	0.20	0.25	0.35	0.70
DW-HD-60*-M30-310	1.00	TBD	TBD	TBD	TBD
DW-HD-60*-M30-411	1.00	0.30	0.35	0.50	0.70
DW-HD-61*-M30-411	1.00	TBD	TBD	TBD	TBD
DW-HD-61*-M50-517	1.00	TBD	TBD	TBD	TBD
DW-HD-62*-M8-1**	1.00	≤ 0.15	≤ 0.15	0.25	0.60
DW-L*-70*-P12G	1.00	0.80	1.00	1.50	0/0
DW-L*-70*-P12G -embedded	1.00	-	0.60	0.70	0.80
LF40-**-*H	1.00	0.30	0.40	0.40	0.70
P8	1.00	0.25 to 0.45	0.30 to 0.45	0.35 to 0.50	0.60 to 1.00
PAE (1.5 mm)	1.00	0.20	0.25	0.35	0.70
PAE (2.5 mm)	1.00	0.5	0.5	0.6	0.8
PAK (5mm)	1.00	0.30	0.35	0.45	0.75
PAK (8mm)	1.00	0.40	0.4	0.5	0.7
PAM (2mm)	1.0	0.30	0.35	0.50	0.85
PAM (4mm)	1.00	0.5	0.5	0.6	0.8
PBE6	1.00	0.3	0.4	0.5	0.9
PBM6	1.00	0.3	0.4	0.5	0.9
PBK6	1.00	0.3	0.4	0.5	0.9
PBT6	1.00	0.3	0.4	0.5	0.9
PBK-A*-*H	1.00	0.00	0.10	0.20	0.50
PBM-A*-*H	1.00	0.10	0.30	0.30	0.60
PBT-A*-*H	1.00	0.30	0.40	0.40	0.70
PD1-A*-1*	1.00	0.45	0.50	0.55	0.80
PD1-A*-3*	1.00	0.40	0.40	0.50	0.75

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Material influence

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Material Influence					
Sensor Series	*Target Material Value*				
	Steel	*Copper*	*Aluminum*	*Brass*	*Stainless Steel*
PEW-A*-1*	1.00	0.30	0.40	0.50	0.70
PEW2	1.00	0.3	0.4	0.4	0.9
PFK1-B*-1H	1.00	0.25	0.35	0.40	0.70
PFK1-B*-2H	1.00	0.27	0.35	0.42	0.70
PFK1-**-3H	1.00	0.20	0.30	0.40	0.65
PFK1-**-4H	1.00	0.30	0.38	0.42	0.65
PFM1-B*-1H	1.00	0.25	0.30	0.40	0.75
PFM1-B*-2H	1.00	0.33	0.40	0.50	0.80
PFM1-**-3H	1.00	0.30	0.35	0.40	0.75
PFM1-**-4H	1.00	0.33	0.40	0.45	0.75
PFT1*-AP-*H	1.00	0.30	0.40	0.40	0.70
PKW-**-1H	1.00	0.12	0.20	0.26	0.62
PKW-**-2H	1.00	0.30	0.37	0.46	0.78
PKW-A*-5*	1.00	0.80	1.00	1.20	0.50
PKW-A*-5* -embedded	0.75	-	0.90	0.75	0.80
PKW2	1.00	0.2	0.5	0.6	0.7
PMW-**-1H	1.00	0.02	0.08	0.20	0.68
PMW-**-2H	1.00	0.34	0.41	0.51	0.88
PMW-A*-5*	1.00	0.85	1.00	1.30	0.50
PMW-A*	0.70	-	1.15	1.05	0.80
PMW2	1.00	0.2	0.5	0.6	0.7
PNE6	1.00	0.3	0.4	0.4	0.7
PNM	1.00	0.30	0.40	0.50	0.70
PNMK	1.00	0.30	0.40	0.50	0.70