Reference: PH18CNT20NAT1SA

Selected parameters SYSTEM Through-beam HOUSING M18 Square SENSING RANGE 6 ... 20 m CONNECTION M12 Pig-tail OUTPUT DC NPN MATERIAL Plastic Others SENSING RANGE 20 m HOUSING M18 (21 x 15 x 35 mm) MATERIAL ABS

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Photoelectrics
Through-beam
Type PH18CNT..., DC
• Miniature sensor range
• Range: 20 m
• Sensitivity adjustment by potentiometer
• Modulated, infraredlight 850 nm
• Supply voltage: 10 to 30 VDC
• Output: 100 mA, NPN or PNP, N.O + N.C.
• Degree of protection IP67, IP69K
• LED indication for output, stability and power ON
• Protection: reverse polarity, short circuit and transients
• Cable, plug and pigtail versions
• Excellent EMC performance
Product Description
Ordering Key
PH18CNT20PAM1SA
The PH18CNT... is part of a family of inexpensive general purpose through-beam sensors in industrial standard 18 mm cylindrical andsquare ASS housing.
The sensors are useful in applications where high- accuracy detection as well as small size is required.
Type Selection
Compact housing and high power LED for excellent performance-size ratio.
The potentiometer used for adjustment of the sensitivity makes the sensors highly flex- ible. The outputtype is NPN or PNP and the output switch- ing function is NO and NC.
Type
Housing style square
Housing size Housing material Housing type neutral Detection principle Sensing distance Output type

Output configuration Connection type Sensitive adjustment
Housing type Range Connec-Orderingno. Orderingno. ReceiverOrderingno. Receiver SntionEmitterNPN PNP
Make or break switching Make or break switching
M18 Square type 20 m CablePH 18 CNT 20PH 18 CNT 20 NASAPH 18 CNT 20 PASA
M18 Square type 20 m PlugPH 18 CNT 20M1 PH 18 CNT 20 NAM1SA PH 18 CNT 20 PAM1SA M18 Square type 20 m Pigtail M12PH 18 CNT 20T1PH 18 CNT 20 NAT1SAPH 18 CNT 20 PAT1SA
Specifications Receiver according to EN60947-5-2
Rated operating distance (Sn)Up to 20 m
Blind zone 0 mm
Sensitivity control Adjustable by potentiometer
Electrical adjustment210˚
Mecanical adjustment240˚
Adjustable distance to target1 - 20 m
Temperature drift≤ 0.2%/ºC
Hysteresis (H)
(differential travel) ≤ 20%
Rated operational volt. (US) 10 to 30 VDC
(ripple included)
Ripple (Urpp) ≤ 10%
Output current
Continuous (Ie)≤ 100 mA
Short-time (I)≤ 100 mA
(max. load capacity 100 nF)
No load supply current (Io)≤ 15 mA @ 24 VDC
Minimum operational current (Im) 0.5 mA
OFF-state current (Ir)≤ 100 µA
Voltage drop (Ud) ≤ 2.0 VDC @ 100 mA
Protection Short-circuit, reverse
polarity and transients
Sensing angle ± 4º
Ambient light 30.000 lux
Incandescent lamp
Operating frequency500 Hz
Response time
OFF-ON (tON)≤ 1.0 ms
ON-OFF (tOFF) ≤ 1.0 ms
Power ON delay (tv) ≤ 200 ms
Output function
Type NPN or PNP
Switching function NO and NC
Indication
Output ON LED, yellow
Signal stability and power ONLED, green
Specifications are subject to change without notice (05.02.2013) 1